? 10765267Amend

Connecting via Winsock to STN

3 58-68

Welcome to STN International! Enter x:x

LOGINID:SSPTANAG1626

PASSWORD:
TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * * * * * * Welcome to STN International * * * * * * * * * *

NEWS	1		Web Page URLs for STN Seminar Schedule - N. America
NEWS	2		"Ask CAS" for self-help around the clock
NEWS	3	DEC 05	CASREACT(R) - Over 10 million reactions available
NEWS	4	DEC 14	2006 MeSH terms loaded in MEDLINE/LMEDLINE
NEWS	5	DEC 14	2006 MeSH terms loaded for MEDLINE file segment of TOXCENTER
NEWS	6	DEC 14	CA/CAplus to be enhanced with updated IPC codes
NEWS	7	DEC 21	IPC search and display fields enhanced in CA/CAplus with the IPC reform
NEWS	8	DEC 23	New IPC8 SEARCH, DISPLAY, and SELECT fields in USPATFULL/ USPAT2
NEWS	9	JAN 13	IPC 8 searching in IFIPAT, IFIUDB, and IFICDB
NEWS	10	JAN 13	New IPC 8 SEARCH, DISPLAY, and SELECT enhancements added to INPADOC
NEWS	11	JAN 17	Pre-1988 INPI data added to MARPAT
NEWS	12	JAN 17	IPC 8 in the WPI family of databases including WPIFV
NEWS	13	JAN 30	Saved answer limit increased
NEWS	14	JAN 31	Monthly current-awareness alert (SDI) frequency added to TULSA
NEWS	15	FEB 21	STN AnaVist, Version 1.1, lets you share your STN AnaVist visualization results
NEWS	16	FEB 22	Status of current WO (PCT) information on STN
NEWS	17	FEB 22	The IPC thesaurus added to additional patent databases on STN
NEWS	18	FEB 22	Updates in EPFULL; IPC 8 enhancements added
NEWS	19	FEB 27	New STN AnaVist pricing effective March 1, 2006
NEWS	20	FEB 28	MEDLINE/LMEDLINE reload improves functionality
NEWS	21	FEB 28	TOXCENTER reloaded with enhancements
NEWS	22	FEB 28	REGISTRY/ZREGISTRY enhanced with more experimental spectral property data
NEWS	23	MAR 01	INSPEC reloaded and enhanced
NEWS	24	MAR 03	Updates in PATDPA; addition of IPC 8 data without attributes
NEWS	25	MAR 08	X.25 communication option no longer available after June 2006

NEWS EXPRESS FEBRUARY 15 CURRENT VERSION FOR WINDOWS IS V8.01a,
CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
AND CURRENT DISCOVER FILE IS DATED 19 DECEMBER 2005.
V8.0 AND V8.01 USERS CAN OBTAIN THE UPGRADE TO V8.01a AT
http://download.cas.org/express/v8.0-Discover/

NEWS HOURS	STN Operating Hours Plus Help Desk Availability
NEWS INTER	General Internet Information
NEWS LOGIN	Welcome Banner and News Items
NEWS PHONE	Direct Dial and Telecommunication Network Access to STN
NEWS WWW	CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that

specific topic.

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* * * * * * * * * * * * * * * STN Columbus * * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 18:09:00 ON 08 MAR 2006

=> fil reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'REGISTRY' ENTERED AT 18:09:35 ON 08 MAR 2006
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 7 MAR 2006 HIGHEST RN 876109-17-0
DICTIONARY FILE UPDATES: 7 MAR 2006 HIGHEST RN 876109-17-0

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH January 6, 2006

Please note that search-term pricing does apply when conducting SmartSELECT searches.

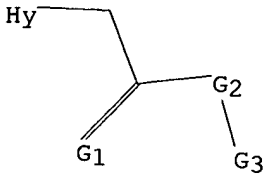
****
* *
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added, *
* effective March 20, 2005. A new display format, IDERL, is now *
* available and contains the CA role and document type information. *
* *
****

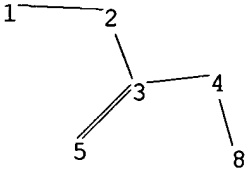
Structure search iteration limits have been increased. See HELP SLIMITS for details.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

http://www.cas.org/ONLINE/UG/regprops.html

=>
Uploading C:\Program Files\Stnexp\Queries\10765267amend.str





chain nodes :
1 2 3 4 5 8
chain bonds :
1-2 2-3 3-4 3-5 4-8
exact/norm bonds :
1-2 3-4 3-5 4-8
exact bonds :
2-3

G1:O,S,N

G2:O,S

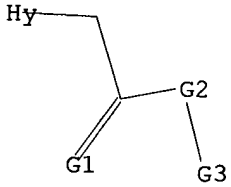
G3:Ph,o-C6H4,m-C6H4,p-C6H4,Hy

Match level :
1:Atom 2:CLASS 3:CLASS 4:CLASS 5:CLASS 8:CLASS
Generic attributes :
1:
Saturation : Saturated
Number of Carbon Atoms : less than 7
Type of Ring System : Monocyclic

Element Count :
Node 1: Limited
N,N1-2
C,C4-5
O,O0-1

L1 STRUCTURE UPLOADED

=> d l1
L1 HAS NO ANSWERS
L1 STR



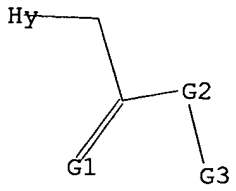
G1 O,S,N

G2 O,S

G3 Ph,o-C6H4,m-C6H4,p-C6H4,Hy

Structure attributes must be viewed using STN Express query preparation.

=> d l1
L1 HAS NO ANSWERS
L1 STR



G1 O,S,N

G2 O,S

G3 Ph,o-C6H4,m-C6H4,p-C6H4,Hy

Structure attributes must be viewed using STN Express query preparation.

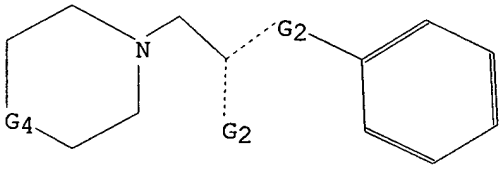
=> s l1
SAMPLE SEARCH INITIATED 18:10:02 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 1092423 TO ITERATE

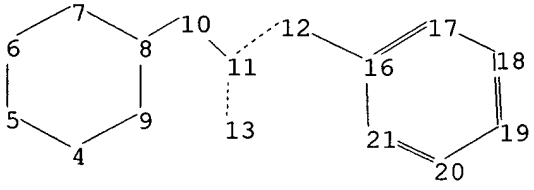
0.2% PROCESSED 2000 ITERATIONS 0 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **INCOMPLETE**
BATCH **INCOMPLETE**
PROJECTED ITERATIONS: 21794380 TO 21902540
PROJECTED ANSWERS: 0 TO 0

L2 0 SEA SSS SAM L1

=>
Uploading C:\Program Files\Stnexp\Queries\10765267phen152841.str





chain nodes :
10 11 12 13
ring nodes :
4 5 6 7 8 9 16 17 18 19 20 21
chain bonds :
8-10 10-11 11-12 11-13 12-16
ring bonds :
4-5 4-9 5-6 6-7 7-8 8-9 16-17 16-21 17-18 18-19 19-20 20-21
exact/norm bonds :
4-5 4-9 5-6 6-7 7-8 8-9 8-10 10-11 11-12 11-13 12-16
normalized bonds :

16-17 16-21 17-18 18-19 19-20 20-21

G1:O,S,N

G2:O,S

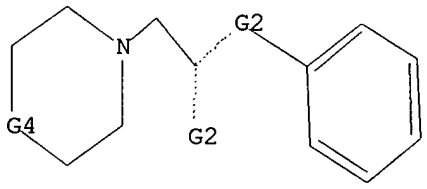
G3:Ph,o-C6H4,m-C6H4,p-C6H4,Hy

G4:CH2,O,N

Match level :
4:Atom 5:Atom 6:CLASS 7:CLASS 8:Atom 9:CLASS 10:CLASS 11:CLASS 12:CLASS 13:CLASS
16:Atom 17:Atom 18:Atom 19:Atom 20:Atom 21:CLASS

L3 STRUCTURE UPLOADED

=> d l3
L3 HAS NO ANSWERS
L3 STR



G1 O,S,N

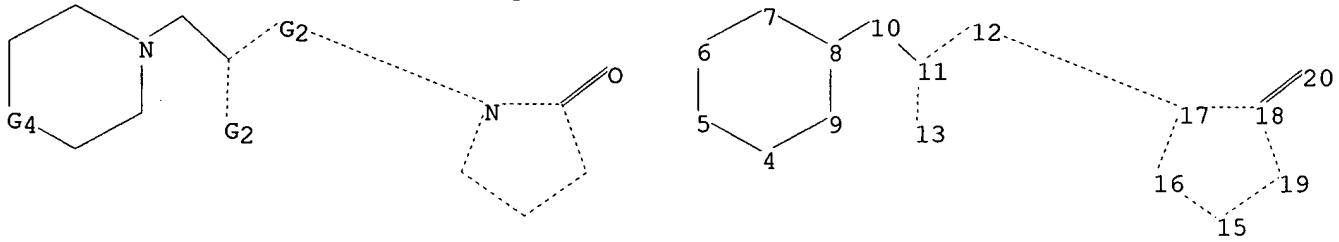
G2 O,S

G3 Ph,o-C6H4,m-C6H4,p-C6H4,Hy

G4 CH2,O,N

Structure attributes must be viewed using STN Express query preparation.

=>
Uploading C:\Program Files\Stnexp\Queries\10765267clm152841.str



chain nodes :
10 11 12 13 20
ring nodes :
4 5 6 7 8 9 15 16 17 18 19
chain bonds :
8-10 10-11 11-12 11-13 12-17 18-20
ring bonds :

4-5 4-9 5-6 6-7 7-8 8-9 15-16 15-19 16-17 17-18 18-19
exact/norm bonds :
4-5 4-9 5-6 6-7 7-8 8-9 8-10 10-11 11-12 11-13 12-17 15-16 15-19 16-17
17-18 18-19 18-20

G1:O,S,N

G2:O,S

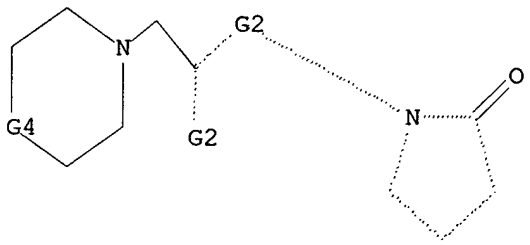
G3:Ph,o-C6H4,m-C6H4,p-C6H4,Hy

G4:CH2,O,N

Match level :
4:Atom 5:Atom 6:CLASS 7:CLASS 8:Atom 9:CLASS 10:CLASS 11:CLASS 12:CLASS 13:CLASS
15:Atom 16:Atom 17:Atom 18:Atom 19:Atom 20:CLASS

L4 STRUCTURE UPLOADED L16

=> d l4
L4 HAS NO ANSWERS
L4 STR



G1 O,S,N

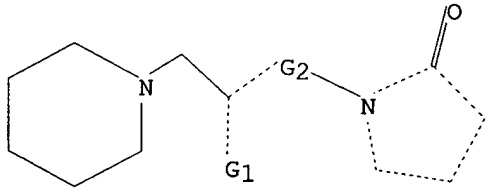
G2 O,S

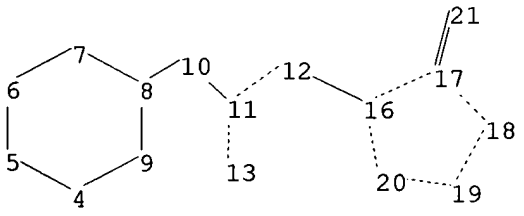
G3 Ph,o-C6H4,m-C6H4,p-C6H4,Hy

G4 CH2,O,N

Structure attributes must be viewed using STN Express query preparation.

=>
Uploading C:\Program Files\Stnexp\Queries\1076526771.str





chain nodes :
10 11 12 13 21
ring nodes :

4 5 6 7 8 9 16 17 18 19 20
chain bonds :
8-10 10-11 11-12 11-13 12-16 17-21
ring bonds :
4-5 4-9 5-6 6-7 7-8 8-9 16-17 16-20 17-18 18-19 19-20
exact/norm bonds :
4-5 4-9 5-6 6-7 7-8 8-9 8-10 11-12 11-13 12-16 16-17 16-20 17-18 17-21
18-19 19-20
exact bonds :
10-11

G1:O,S,N

G2:O,S

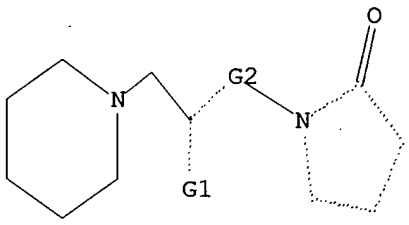
G3:Ph,o-C6H4,m-C6H4,p-C6H4,Hy

G4:CH2,O,N

Match level :
4:Atom 5:Atom 6:CLASS 7:CLASS 8:Atom 9:CLASS 10:CLASS 11:CLASS 12:CLASS 13:CLASS
16:Atom 17:Atom 18:Atom 19:Atom 20:Atom 21:CLASS

L5 STRUCTURE UPLOADED U3

=> d l5
L5 HAS NO ANSWERS
L5 STR



G1 O,S,N

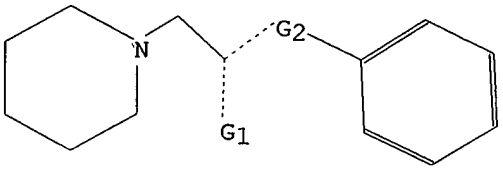
G2 O,S

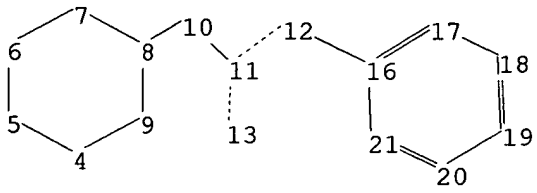
G3 Ph,o-C6H4,m-C6H4,p-C6H4,Hy

G4 CH2,O,N

Structure attributes must be viewed using STN Express query preparation.

=>
Uploading C:\Program Files\Stnexp\Queries\10765267phen71.str





chain nodes :
10 11 12 13
ring nodes :
4 5 6 7 8 9 16 17 18 19 20 21
chain bonds :
8-10 10-11 11-12 11-13 12-16
ring bonds :
4-5 4-9 5-6 6-7 7-8 8-9 16-17 16-21 17-18 18-19 19-20 20-21
exact/norm bonds :
4-5 4-9 5-6 6-7 7-8 8-9 8-10 11-12 11-13 12-16
exact bonds :
10-11
normalized bonds :
16-17 16-21 17-18 18-19 19-20 20-21

G1:O,S,N

G2:O,S

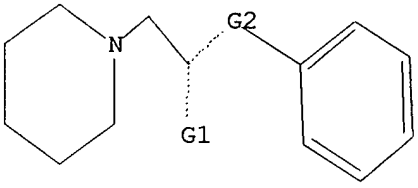
G3:Ph,o-C6H4,m-C6H4,p-C6H4,Hy

G4:CH2,O,N

Match level :
4:Atom 5:Atom 6:CLASS 7:CLASS 8:Atom 9:CLASS 10:CLASS 11:CLASS 12:CLASS 13:CLASS
16:Atom 17:Atom 18:Atom 19:Atom 20:Atom 21:CLASS

L6 STRUCTURE UPLOADED L15

=> d l6
L6 HAS NO ANSWERS
L6 STR



G1 O,S,N

G2 O,S

G3 Ph,o-C6H4,m-C6H4,p-C6H4,Hy

G4 CH2,O,N

Structure attributes must be viewed using STN Express query preparation.

```
=> s l3
SAMPLE SEARCH INITIATED 18:22:14 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -     3900 TO ITERATE

 51.3% PROCESSED     2000 ITERATIONS                                 12 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:        74255 TO    81745
PROJECTED ANSWERS:             178 TO      758

L7           12 SEA SSS SAM L3

=> s l3 full
FULL SEARCH INITIATED 18:22:20 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -    78363 TO ITERATE

100.0% PROCESSED    78363 ITERATIONS                               605 ANSWERS
SEARCH TIME: 00.00.01

L8          605 SEA SSS FUL L3

=> s l4
SAMPLE SEARCH INITIATED 18:22:34 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -       13 TO ITERATE

100.0% PROCESSED      13 ITERATIONS                                 1 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:           44 TO      476
PROJECTED ANSWERS:               1 TO       80

L9            1 SEA SSS SAM L4

=> s l4 full
FULL SEARCH INITIATED 18:22:40 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -      267 TO ITERATE

100.0% PROCESSED      267 ITERATIONS                                24 ANSWERS
SEARCH TIME: 00.00.01

L10          24 SEA SSS FUL L4

=> s l4
SAMPLE SEARCH INITIATED 18:22:53 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -       13 TO ITERATE

100.0% PROCESSED       13 ITERATIONS                                1 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:           44 TO      476
PROJECTED ANSWERS:               1 TO       80
```

```
L11           1 SEA SSS SAM L4

=> s l5
SAMPLE SEARCH INITIATED 18:23:01 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -       16 TO ITERATE

100.0% PROCESSED       16 ITERATIONS                                2 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:           80 TO      560
PROJECTED ANSWERS:               2 TO      124

L12           2 SEA SSS SAM L5

=> s l5 full
FULL SEARCH INITIATED 18:23:06 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -      312 TO ITERATE

100.0% PROCESSED      312 ITERATIONS                               16 ANSWERS
SEARCH TIME: 00.00.01

L13          16 SEA SSS FUL L5

=> s l6
SAMPLE SEARCH INITIATED 18:23:16 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -     2849 TO ITERATE

 70.2% PROCESSED     2000 ITERATIONS                                9 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:        53779 TO    60181
PROJECTED ANSWERS:              42 TO      470

L14           9 SEA SSS SAM L6

=> s l6 full
FULL SEARCH INITIATED 18:23:20 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -    56321 TO ITERATE

100.0% PROCESSED    56321 ITERATIONS                             342 ANSWERS
SEARCH TIME: 00.00.01

L15         342 SEA SSS FUL L6

=> fil hcaplus
COST IN U.S. DOLLARS                          SINCE FILE      TOTAL
                                                 ENTRY    SESSION
FULL ESTIMATED COST                             676.56     676.77

FILE 'HCAPLUS' ENTERED AT 18:23:48 ON 08 MAR 2006
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2006 AMERICAN CHEMICAL SOCIETY (ACS)


Copyright of the articles to which records in this database refer is
```

FILE COVERS 1907 - 8 Mar 2006 VOL 144 ISS 11
FILE LAST UPDATED: 7 Mar 2006 (20060307/ED)

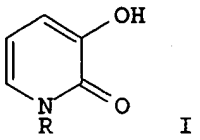
New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

```
=> s l8
L16         143 L8

=> s l16 and (isotop?)
         321646 ISOTOP?
L17           3 L16 AND (ISOTOP?)

=> d ed abs ibib hitstr 1-3
```



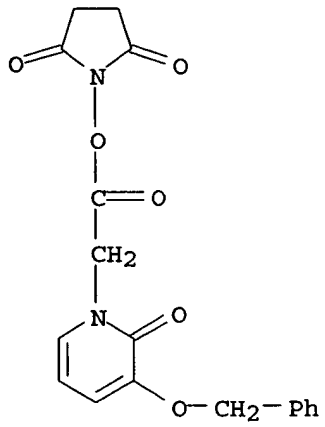
I

AB The synthesis of a range of novel bidentate, e.g., I (R = alkyl or alkylaminocarbonylmethyl), and hexadentate ligands containing the chelating moiety 3-hydroxy-2(1H)-pyridinone is described. The pKa values of the ligands and the stability consts. of their iron(III) complexes were determined The stability constant of the iron(III) complex of one of the hexadentate ligands is comparable to that of desferrioxamine B. The distribution coeffs. of the ligands and their iron(III) complexes were also determined One of the novel hexadentate compds. markedly enhanced iron(III) excretion from both hepatocytes and iron-overloaded mice.

IT **95215-73-9P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reaction of, with amines)

RN 95215-73-9 HCAPLUS

CN 2,5-Pyrrolidinedione, 1-[[[2-oxo-3-(phenylmethoxy)-1(2H)-pyridinyl]acetyl]oxy]- (9CI) (CA INDEX NAME)



L8 ANSWER 20 OF 29 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1990:7937 HCAPLUS

DOCUMENT NUMBER: 112:7937

TITLE: Preparation and testing of tripeptide derivatives as cardiovascular agents

INVENTOR(S): Sawayama, Tadahiro; Nishimura, Kazuya; Deguchi, Takashi

PATENT ASSIGNEE(S): Dainippon Pharmaceutical Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 10 pp.
CODEN: JKXXAF

DOCUMENT TYPE: Patent

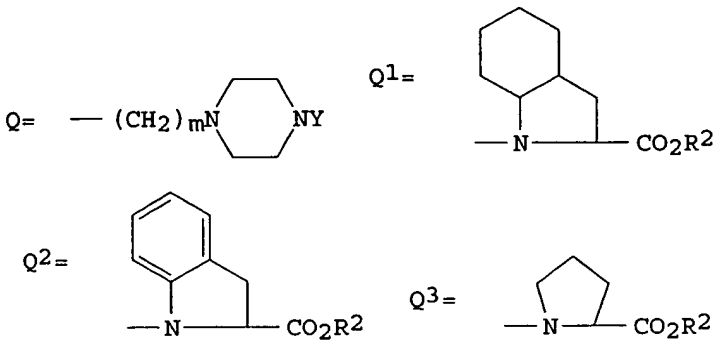
LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 01125357	A2	19890517	JP 1987-281873	19871106
PRIORITY APPLN. INFO.:			JP 1987-281873	19871106
OTHER SOURCE(S):	MARPAT 112:7937			

GI



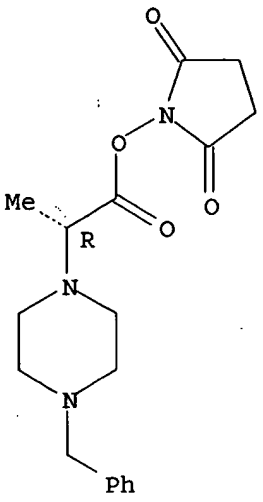
AB RR1CHCONHCH(CO2R2)(CH2)2COR3 [I; R = H, lower alkyl, PhCH2; R1 = (NH)m(CH2)nW, Q; R2 = H, lower alkyl; R3 = Q1, Q2, Q3, NR4CHR2CO2R2; W = H, CO2H, NH2, OH; Y = H, lower alkyl, Ph, PhCH2; R4 = C4-8 cycloalkyl, halo, alkoxy, (OH-substituted) Ph; m = 0, 1; n = 0-4] and their salts are prepared Refluxing 28 g 2-(S)-bromopropionic acid with 42 g PhCH2OH in PhMe gave 17.0 g benzyl 2-(S)-bromopropionate, 2.2 g of which was stirred with 1.6 g 1-benzylpiperazine in MeCN, then hydrolyzed with aqueous NaOH to give 1.0 g 2-(R)-(4-benzylpiperazinyl)propionic acid (II). Then, 24.5 g N-benzyloxycarbonyl-O1-ethyl-D-glutamic acid was stirred with 17.5 g Et (2S, 3aS, 7aS)-octahydro-1H-indole-2-carboxylate-HCl in CH2Cl2, then reduced,and then hydrolyzed with aqueous NaOH to give 15.01 g (2S, 3aS, 7aS)-1-(γ-D-glutamyl)octahydro-1H-indole-2-carboxylic acid (III). Then, 0.8 g II was treated with 0.4 g N-hydroxysuccinimide in CHCl3 to give 2-(R)-(4-benzylpiperazinyl)propionic acid N-hydroxysuccinimide ester, which was treated with 1.0 g III in THF to give 0.8 g (2S, 3aS, 7aS)-1-[N-2(R)-(4-benzylpiperazinyl)propionyl]-γ-D-glutamyl]octahydro-1H-indole-2-carboxylic acid, 0.4 g of which was refluxed with HCO2H in MeOH in the presence of Pd black for 4 h to give 0.2 g (2S, 3aS, 7aS)-1-[N-(2R)-piperazinylpropionyl)-γ-D-glutamyl]octahydro-1H-indole-2-carboxylic acid, which showed an IC50 of 2.1 + 10-7 M against angiotensin converting enzyme.

IT **124078-64-4P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and condensation of, with (glutamyl)indolecarboxylic acid)

RN 124078-64-4 HCAPLUS

CN 2,5-Pyrrolidinedione, 1-[1-oxo-2-[4-(phenylmethyl)-1-piperazinyl]propoxy]-, (R)- (9CI) (CA INDEX NAME)

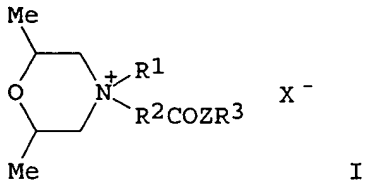
Absolute stereochemistry.



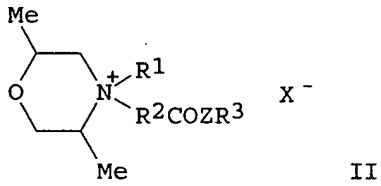
L8 ANSWER 21 OF 29 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1989:589581 HCAPLUS
DOCUMENT NUMBER: 111:189581
TITLE: Morpholinoalkylcarboxylates as plant growth regulators and fungicides
INVENTOR(S): Ballschuh, Detlef; Banasiak, Lothar; Gruenzel, Hermann; Kluge, Eberhard; Lyr, Horst; Ohme, Roland; Rusche, Jochen; Seibt, Horst; Spengler, Dieter; Stoeckel, Christian
PATENT ASSIGNEE(S): Akademie der Landwirtschaftwissenschaften der DDR, Institut fuer Pflanzenschutzforschung, Ger. Dem. Rep.
SOURCE: Ger. (East), 28 pp.
CODEN: GEXXA8
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DD 263688	A1	19890111	DD 1985-278326	19850705
PRIORITY APPLN. INFO.:			DD 1985-278326	19850705

OTHER SOURCE(S): MARPAT 111:189581
GI

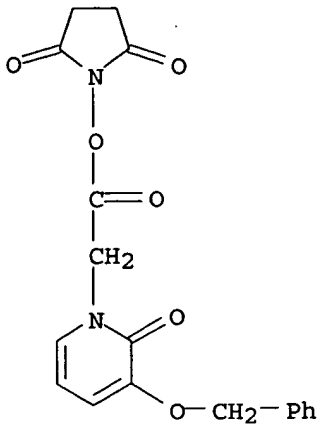


I



II

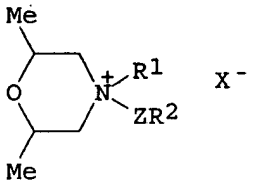
AB Mixts. of the title compds. I and II [R1 = C6-20; R2 = C1-6 alkylene; R3 = (un)substituted alkyl, alkenyl, cycloalkyl, etc.; Z = O, S; X- = anion]



L8 ANSWER 24 OF 29 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1987:156487 HCAPLUS
DOCUMENT NUMBER: 106:156487
TITLE: Salts of morpholinocarboxylic esters and morpholinoalkyl phenyl ethers, processes for their preparation, and their use as fungicides and plant growth regulators.
INVENTOR(S): Banasiak, Lothar; Leuner, Brita; Lyr, Horst; Nega, Eva; Sunkel, Marianne
PATENT ASSIGNEE(S): Institut fuer Pflanzenschutzforschung Kleinmachnow, Ger. Dem. Rep.
SOURCE: Eur. Pat. Appl., 41 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
EP 209763	A1	19870128	EP 1986-108916		19860701
R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE					
DD 263685	A1	19890111	DD 1985-278323		19850705
DD 263687	A1	19890111	DD 1985-278325		19850705
AU 8659401	A1	19870108	AU 1986-59401		19860630
DK 8603151	A	19870106	DK 1986-3151		19860702
FI 8602851	A	19870106	FI 1986-2851		19860704
ZA 8605002	A	19870325	ZA 1986-5002		19860704
JP 62084065	A2	19870417	JP 1986-156349		19860704
HU 42288	A2	19870728	HU 1986-2826		19860704
HU 42286	A2	19870728	HU 1986-2827		19860704
ES 2001853	A6	19880701	ES 1986-125		19860704
PL 146362	B1	19890131	PL 1986-260474		19860704
CS 264279	B2	19890613	CS 1986-5135		19860707
PRIORITY APPLN. INFO.:			DD 1985-278323	A	19850705
			DD 1985-278325	A	19850705

GI



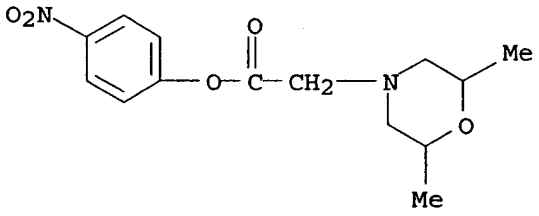
I

AB The title compds. [I; R = C6-20 alkyl; R2 = R3Z1CO, (un)substituted PhO; R3 = (halo)alkenyl, alkynyl, (un)substituted alkyl, cycloalkyl, aryl, aralkyl; X1 = anion of a nonphytotoxic acid; Z = O, S; Z1 = C1-6 alkylene; R3 and X- may be absent] were prepared as fungicides and plant growth regulators. A mixture of 30 g 4-isotridecyl-2,6-dimethylmorpholine and 10.9 g ClCH2CO2Me was refluxed 20 h in MeCN containing catalytic NaI to give 38 g I (R1 = isotridecyl, R2 = CO2Me, X = Cl, Z = CH2)(II). At 10 μg/mL II gave 88% inhibition of growth of Botrytis cinerea. At 1000 mg/L II reduced the growth of cucumber plants by 32%.

IT **107562-00-5DP**, quaternary derivs. **107562-11-8DP**, quaternary derivs.
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of, as fungicide and plant growth inhibitor)

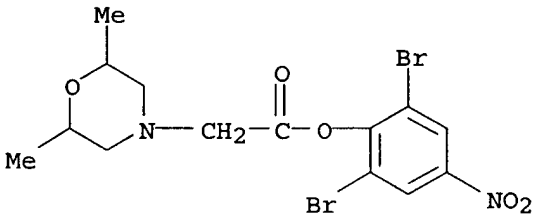
RN 107562-00-5 HCAPLUS

CN 4-Morpholineacetic acid, 2,6-dimethyl-, 4-nitrophenyl ester (9CI) (CA INDEX NAME)



RN 107562-11-8 HCAPLUS

CN 4-Morpholineacetic acid, 2,6-dimethyl-, 2,6-dibromo-4-nitrophenyl ester (9CI) (CA INDEX NAME)



L8 ANSWER 25 OF 29 HCAPLUS COPYRIGHT 2006 ACS on STN

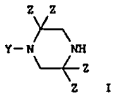
ACCESSION NUMBER: 1985:596001 HCAPLUS

DOCUMENT NUMBER: 103:196001

TITLE: Hydroxypyridinone derivatives and pharmaceutical compositions containing them

INVENTOR(S): Hider, Robert Charles; Kontoghiorghes, George; Silver,

L17 ANSWER 1 OF 3 HCAPLUS COPYRIGHT 2006 ACS on STN
ED Entered STN: 08 Jul 2005
GI



AB **Isotopically** enriched N-substituted piperazines (I) or salts thereof, comprising one or more heavy atom **isotopes** (Y = straight chain or branched C1-6 alkyl or C1-6 alkyl ether group wherein the carbon atoms of the alkyl group or alkyl ether group each independently comprise linked hydrogen, deuterium or fluorine atoms; Z = independently H, F, Cl, Br, iodine, an amino acid side chain, a straight chain or branched C1-6 alkyl group that may optionally contain a substituted or unsubstituted aryl group wherein the carbon atoms of the alkyl and aryl groups each independently comprise linked H or F atoms, a straight chain or branched C1-6 alkyl ether group that may optionally contain a substituted or unsubstituted aryl group (wherein the carbon atoms of the alkyl and aryl groups each independently comprise linked hydrogen or fluorine atoms), or a straight chain or branched C1-6 alkoxy group that may optionally contain a substituted or unsubstituted aryl group; wherein the carbon atoms of the alkyl and aryl groups each independently comprise linked hydrogen or fluorine atoms; wherein the N-methylpiperazine is **isotopically** enriched with either of 13C and/or 15N) are prepared N-substituted piperazines can be used as intermediates in the synthesis of N-substituted piperazine acetic acids which in turn can be used as intermediates in the synthesis of active esters of N-substituted piperazine acetic acid. The active esters of N-substituted piperazine acetic acid can be used as labeling reagents to prepare a set of isobaric labeling reagents. The set of isobaric labeling reagents can be used to label analytes such as peptides, proteins, amino acids, oligonucleotides, DNA, RNA, lipids, carbohydrates, steroids, small mols. and the like (no data). Thus, to a stirring solution of 1.18 g (11.83 mmol) N-methylpiperazine in 15 mL toluene at room temperature was added 1 g (5.91 mmol) of Et bromoacetate-1,2-13C dropwise, over a period of 15 min. The reaction mixture was then heated in an oil bath at 90° for 4 h, cooled to room temperature, filtered to remove the off-white solid to give, after workup on the combined filtrate and washings, 1.10 g (quant.) of 4-methylpiperazine-1-acetic acid Et ester-1,2-13C (II) as an off-white oil. II (1.1 g) was refluxed in water for 24 h to give 780 mg 4-methylpiperazine-1-acetic acid-1,2-13C.

ACCESSION NUMBER: 2005:592130 HCAPLUS
DOCUMENT NUMBER: 143:115574
TITLE: Preparation of **isotopically** enriched N-substituted piperazines
INVENTOR(S): Pappin, Darryl J. C.; Pillai, Sasi; Coull, James M.
PATENT ASSIGNEE(S): Applera Corp., USA
SOURCE: U.S. Pat. Appl. Publ., 29 pp.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English

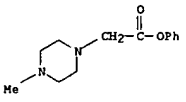
L17 ANSWER 1 OF 3 HCAPLUS COPYRIGHT 2006 ACS on STN (Continued)
FAMILY ACC. NUM. COUNT: 6
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2005148773	A1	20050707	US 2004-751388	20040105
WO 2005068446	A1	20050728	WO 2005-US223	20050105

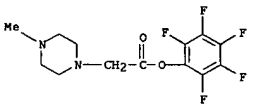
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

PRIORITY APPLN. INFO.:
US 2004-751353 A 20040105
US 2004-751354 A 20040105
US 2004-751387 A 20040105
US 2004-751388 A 20040105
US 2004-822639 A 20040412
US 2004-852730 A 20040524

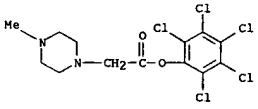
OTHER SOURCE(S): MARPAT 143:115574
IT **856187-95-6**, 4-Methylpiperazine-1-acetic acid phenyl ester
RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of **isotopically** enriched N-substituted piperazines as isobaric labeling reagents)
RN 856187-95-6 HCAPLUS
CN 1-Piperazineacetic acid, 4-methyl-, phenyl ester (9CI) (CA INDEX NAME)



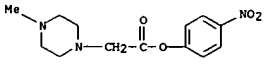
IT **857027-10-2P 857503-00-5P 857503-01-6P 857503-03-8P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of **isotopically** enriched N-substituted piperazines as isobaric labeling reagents)
RN 857027-10-2 HCAPLUS
CN 1-Piperazineacetic acid, 4-methyl-, pentafluorophenyl ester (9CI) (CA INDEX NAME)



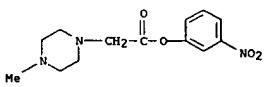
RN 857503-00-5 HCAPLUS
CN 1-Piperazineacetic acid, 4-methyl-, pentachlorophenyl ester (9CI) (CA INDEX NAME)



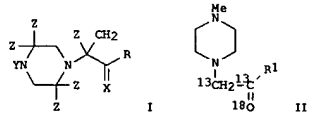
RN 857503-01-6 HCAPLUS
CN 1-Piperazineacetic acid, 4-methyl-, 4-nitrophenyl ester (9CI) (CA INDEX NAME)



RN 857503-03-8 HCAPLUS
CN 1-Piperazineacetic acid, 4-methyl-, 3-nitrophenyl ester (9CI) (CA INDEX NAME)



L17 ANSWER 2 OF 3 HCAPLUS COPYRIGHT 2006 ACS on STN
ED Entered STN: 08 Jul 2005
GI



AB In some embodiments, this invention pertains to active esters of N-substituted piperazine acetic acid I (R = leaving group; X = O, S; Y = C1-C6 alkyl, C1-C6 alkyl ether; Z = H, ZH, F, Cl, Br, iodide, amino acid side chain, C1-C6 alkyl, C1-C6 alkyl ether), including **isotopically** enriched versions thereof. In some embodiments, this invention pertains to methods for the preparation of active esters of N-substituted piperazine acetic acid, including **isotopically** enriched versions thereof. For example, the **isotopically** labeled N-methylpiperazine II (R1 = 18OH) reacted with the trifluoroacetic acid ester of N-hydroxysuccinimide to give the succinate II (R1 = OR2, R2 = succinimido).

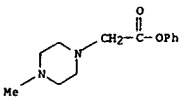
ACCESSION NUMBER: 2005:592129 HCAPLUS
DOCUMENT NUMBER: 143:97398
TITLE: Preparation of active esters of N-substituted piperazine acetic acids, including **isotopically** enriched versions
INVENTOR(S): Dey, Subhakar; Pappin, Darryl J. C.; Purkayastha, Subhasish; Pillai, Sasi; Coull, James M.
PATENT ASSIGNEE(S): Applera Corp., USA
SOURCE: U.S. Pat. Appl. Publ., 33 pp.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 6
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2005148771	A1	20050707	US 2004-751354	20040105
WO 2005068446	A1	20050728	WO 2005-US223	20050105

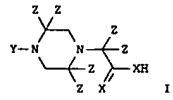
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

PRIORITY APPLN. INFO.:
US 2004-751353 A 20040105
US 2004-751354 A 20040105
US 2004-751387 A 20040105
US 2004-751388 A 20040105
US 2004-822639 A 20040412
US 2004-852730 A 20040524

L17 ANSWER 2 OF 3 HCAPLUS COPYRIGHT 2006 ACS on STN (Continued)
OTHER SOURCE(S): MARPAT 143:97398
IT 856187-95-6
RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of active esters of N-substituted piperazine acetic acids and their labeled derivs.)
RN 856187-95-6 HCAPLUS
CN 1-Piperazineacetic acid, 4-methyl-, phenyl ester (9CI) (CA INDEX NAME)



L17 ANSWER 3 OF 3 HCAPLUS COPYRIGHT 2006 ACS on STN
ED Entered STN: 08 Jul 2005
GI



AB **Isotopically** enriched N-substituted piperazine-1-acetic acids (I) or salts thereof, comprising one or more heavy atom **isotopes** [X = O, S; Y = straight chain or branched C1-6 alkyl or C1-6 alkyl ether group wherein the carbon atoms of the alkyl group or alkyl ether group each independently comprise linked hydrogen, deuterium or F atoms; Z = independently H, deuterium, F, Cl, Br, iodine, an amino acid side chain, a straight chain or branched C1-6 alkyl group that may optionally contain a substituted or unsubstituted aryl group (wherein the carbon atoms of the alkyl and aryl groups each independently comprise linked H, deuterium or F atoms), a straight chain or branched C1-6 alkyl ether group that may optionally contain a substituted or unsubstituted aryl group wherein the carbon atoms of the alkyl and aryl groups each independently comprise linked H, deuterium or F atoms, or a straight chain or branched C1-6 alkoxy group that may optionally contain a substituted or unsubstituted aryl group (wherein the carbon atoms of the alkyl and aryl groups each independently comprise linked H, deuterium or F atoms)] are prepared N-substituted piperazines can be used as intermediates in the synthesis of N-substituted piperazine acetic acids which in turn can be used as intermediates in the synthesis of active esters of N-substituted piperazine acetic acid. The active esters of N-substituted piperazine acetic acid can be used as labeling reagents to prepare a set of isobaric labeling reagents. The set of isobaric labeling reagents can be used to label analytes such as peptides, proteins, amino acids, oligonucleotides, DNA, RNA, lipids, carbohydrates, steroids, small mols. and the like. Thus, to a stirring solution of 1.18 g (11.83 mmol) N-methylpiperazine in 15 mL toluene at room temperature was added 1 g (5.91 mmol) of Et bromoacetate-1,2-13C dropwise, over a period of 15 min. The reaction mixture was then heated in an oil bath at 90° for 4 h, cooled to room temperature, filtered to remove the off-white solid to give, after workup on the combined filtrate and washings, 1.10 g (quant.) of 4-methylpiperazine-1-acetic acid Et ester-1,2-13C (II) as an off-white oil. II (1.1 g) was refluxed in water for 24 h to give 780 mg 4-methylpiperazine-1-acetic acid-1,2-13C.

ACCESSION NUMBER: 2005:588426 HCAPLUS
DOCUMENT NUMBER: 143:115568
TITLE: Preparation of **isotopically** enriched N-substituted piperazine-1-acetic acids
INVENTOR(S): Dey, Subhakar; Pappin, Darryl J. c.; Purkayastha, Subhasish; Pillai, Sasi; Coull, James M.
PATENT ASSIGNEE(S): Applera Corp., USA
SOURCE: U.S. Pat. Appl. Publ., 29 pp.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English

L17 ANSWER 3 OF 3 HCAPLUS COPYRIGHT 2006 ACS on STN (Continued)
FAMILY ACC. NUM. COUNT: 6
PATENT INFORMATION:

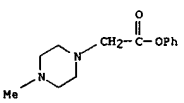
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2005148774	A1	20050707	US 2004-751387	20040105
WO 2005068446	A1	20050728	WO 2005-US223	20050105

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

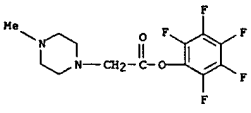
PRIORITY APPLN. INFO.:

US 2004-751353	A	20040105
US 2004-751354	A	20040105
US 2004-751387	A	20040105
US 2004-751388	A	20040105
US 2004-822639	A	20040412
US 2004-852730	A	20040524

OTHER SOURCE(S): MARPAT 143:115568
IT **856187-95-6**, 4-Methylpiperazine-1-acetic acid phenyl ester
RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of **isotopically** enriched N-substituted piperazine-1-acetic acids as isobaric labeling reagents)
RN 856187-95-6 HCAPLUS
CN 1-Piperazineacetic acid, 4-methyl-, phenyl ester (9CI) (CA INDEX NAME)

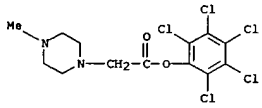


IT **857027-10-2P 857503-00-5P 857503-01-6P**
857503-03-8P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of **isotopically** enriched N-substituted piperazine-1-acetic acids as isobaric labeling reagents)
RN 857027-10-2 HCAPLUS
CN 1-Piperazineacetic acid, 4-methyl-, pentafluorophenyl ester (9CI) (CA INDEX NAME)

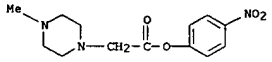


RN 857503-00-5 HCAPLUS

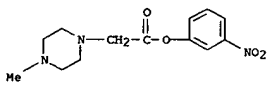
L17 ANSWER 3 OF 3 HCAPLUS COPYRIGHT 2006 ACS on STN (Continued)
CN 1-Piperazineacetic acid, 4-methyl-, pentachlorophenyl ester (9CI) (CA INDEX NAME)



RN 857503-01-6 HCAPLUS
CN 1-Piperazineacetic acid, 4-methyl-, 4-nitrophenyl ester (9CI) (CA INDEX NAME)



RN 857503-03-8 HCAPLUS
CN 1-Piperazineacetic acid, 4-methyl-, 3-nitrophenyl ester (9CI) (CA INDEX NAME)

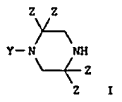


10765267Amend

=> s l10
L18 15 L10

=> d ed abs ibib hitstr 1-15

L18 ANSWER 1 OF 15 HCAPLUS COPYRIGHT 2006 ACS on STN
ED Entered STN: 08 Jul 2005
GI



AB Isotopically enriched N-substituted piperazines (I) or salts thereof, comprising one or more heavy atom isotopes (Y = straight chain or branched C1-6 alkyl or C1-6 alkyl ether group wherein the carbon atoms of the alkyl group or alkyl ether group each independently comprise linked hydrogen, deuterium or fluorine atoms; Z = independently H, F, Cl, Br, iodine, an amino acid side chain, a straight chain or branched C1-6 alkyl group that may optionally contain a substituted or unsubstituted aryl group wherein the carbon atoms of the alkyl and aryl groups each independently comprise linked H or F atoms, a straight chain or branched C1-6 alkyl ether group that may optionally contain a substituted or unsubstituted acyl group (wherein the carbon atoms of the alkyl and aryl groups each independently comprise linked hydrogen or fluorine atoms), or a straight chain or branched C1-6 alkoxy group that may optionally contain a substituted or unsubstituted aryl group; wherein the carbon atoms of the alkyl and aryl groups each independently comprise linked hydrogen or fluorine atoms; wherein the N-methylpiperazine is isotopically enriched with either of 13C and/or 15N) are prepared N-substituted piperazines can be used as intermediates in the synthesis of N-substituted piperazine acetic acids which in turn can be used as intermediates in the synthesis of active esters of N-substituted piperazine acetic acid. The active esters of N-substituted piperazine acetic acid can be used as labeling reagents to prepare a set of isobaric labeling reagents. The set of isobaric labeling reagents can be used to label analytes such as peptides, proteins, amino acids, oligonucleotides, DNA, RNA, lipids, carbohydrates, steroids, small mols. and the like (no data). Thus, to a stirring solution of 1.18 g (11.83 mmol) N-methylpiperazine in 15 mL toluene at room temperature was added 1 g (5.91 mmol) of Et bromoacetate-1,2-13C dropwise, over a period of 15 min. The reaction mixture was then heated in an oil bath at 90° for 4 h, cooled to room temperature, filtered to remove the off-white solid to give, after workup on the combined filtrate and washings, 1.10 g (quant.) of 4-methylpiperazine-1-acetic acid Et ester-1,2-13C (II) as an off-white oil. II (1.1 g) was refluxed in water for 24 h to give 780 mg 4-methylpiperazine-1-acetic acid-1,2-13C.

ACCESSION NUMBER: 2005:592130 HCAPLUS
DOCUMENT NUMBER: 143:115574
TITLE: Preparation of isotopically enriched N-substituted piperazines
INVENTOR(S): Pappin, Darryl J. C.; Pillai, Sasi; Coull, James M.
PATENT ASSIGNEE(S): Applera Corp., USA
SOURCE: U.S. Pat. Appl. Publ., 29 pp.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 6

L18 ANSWER 1 OF 15 HCAPLUS COPYRIGHT 2006 ACS on STN (Continued)
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2005148773	A1	20050707	US 2004-751388	20040105
WO 2005068446	A1	20050728	WO 2005-US223	20050105

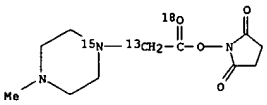
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

PRIORITY APPLN. INFO.:

US 2004-751353	A	20040105
US 2004-751354	A	20040105
US 2004-751387	A	20040105
US 2004-751388	A	20040105
US 2004-822639	A	20040412
US 2004-852730	A	20040524

OTHER SOURCE(S): MARPAT 143:115574

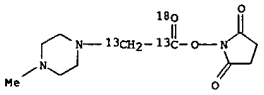
IT **856188-20-0P**
RL: ARG (Analytical reagent use); SPN (Synthetic preparation); ANST (Analytical study); PREP (Preparation); USES (Uses)
(preparation of isotopically enriched N-substituted piperazines as isobaric labeling reagents)
RN 856188-20-0 HCAPLUS
CN 2,5-Pyrrolidinedione, 1-[[(4-methyl-1-piperazinyl-1-15N)acetyl-2-13C-18O]oxy]-, dihydrochloride (9CI) (CA INDEX NAME)



●2 HCl

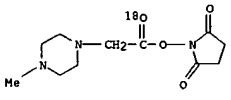
IT **856188-16-4P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of isotopically enriched N-substituted piperazines as isobaric labeling reagents)
RN 856188-16-4 HCAPLUS
CN 2,5-Pyrrolidinedione, 1-[[(4-methyl-1-piperazinyl)acetyl-13C2-18O]oxy]-, dihydrochloride (9CI) (CA INDEX NAME)

L18 ANSWER 1 OF 15 HCAPLUS COPYRIGHT 2006 ACS on STN (Continued)

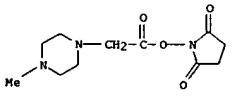


●2 HCl

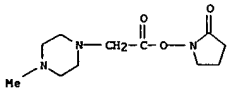
IT **856187-87-6P 856188-06-2P 857027-09-9P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of isotopically enriched N-substituted piperazines as isobaric labeling reagents)
RN 856187-87-6 HCAPLUS
CN 2,5-Pyrrolidinedione, 1-[[(4-methyl-1-piperazinyl)acetyl-18O]oxy]- (9CI) (CA INDEX NAME)



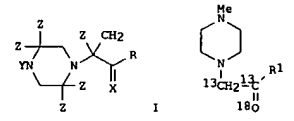
RN 856188-06-2 HCAPLUS
CN 2,5-Pyrrolidinedione, 1-[[(4-methyl-1-piperazinyl)acetyl]oxy]- (9CI) (CA INDEX NAME)



RN 857027-09-9 HCAPLUS
CN 2-Pyrrolidinone, 1-[[(4-methyl-1-piperazinyl)acetyl]oxy]- (9CI) (CA INDEX NAME)



L18 ANSWER 2 OF 15 HCAPLUS COPYRIGHT 2006 ACS on STN
ED Entered STN: 08 Jul 2005
GI



AB In some embodiments, this invention pertains to active esters of N-substituted piperazine acetic acid I (R = leaving group; X = O, S; Y = C1-C6 alkyl, C1-C6 alkyl ether; Z = H, 2H, F, Cl, Br, iodide, amino acid side chain, C1-C6 alkyl, C1-C6 alkyl ether), including isotopically enriched versions thereof. In some embodiments, this invention pertains to methods for the preparation of active esters of N-substituted piperazine acetic acid, including isotopically enriched versions thereof. For example, the isotopically labeled N-methylpiperazine II (R1 = 18OH) reacted with the trifluoroacetic acid ester of N-hydroxysuccinimide to give the succinate II (R1 = OR2, R2 = succinimido).

ACCESSION NUMBER: 2005:592129 HCAPLUS
DOCUMENT NUMBER: 143:97398
TITLE: Preparation of active esters of N-substituted piperazine acetic acids, including isotopically enriched versions
INVENTOR(S): Dey, Subhakar; Pappin, Darryl J. C.; Purkayastha, Subhasish; Pillai, Sasi; Coull, James M.
PATENT ASSIGNEE(S): Applera Corp., USA
SOURCE: U.S. Pat. Appl. Publ., 33 pp.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 6
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2005148771	A1	20050707	US 2004-751354	20040105
WO 2005068446	A1	20050728	WO 2005-US223	20050105

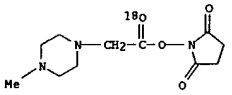
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

PRIORITY APPLN. INFO.:

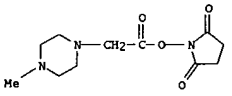
US 2004-751353	A	20040105
US 2004-751354	A	20040105
US 2004-751387	A	20040105
US 2004-751388	A	20040105
US 2004-822639	A	20040412
US 2004-852730	A	20040524

OTHER SOURCE(S): MARPAT 143:97398

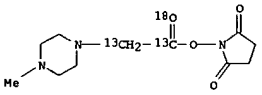
L18 ANSWER 2 OF 15 HCAPLUS COPYRIGHT 2006 ACS on STN (Continued)
IT **856187-87-6P 856188-06-2P 856188-16-4P**
856188-20-0P
RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation)
(preparation of active esters of N-substituted piperazine acetic acids and their labeled derivs.)
RN 856187-87-6 HCAPLUS
CN 2,5-Pyrrolidinedione, 1-[[(4-methyl-1-piperazinyl)acetyl-18O]oxy]- (9CI) (CA INDEX NAME)



RN 856188-06-2 HCAPLUS
CN 2,5-Pyrrolidinedione, 1-[[(4-methyl-1-piperazinyl)acetyl]oxy]- (9CI) (CA INDEX NAME)



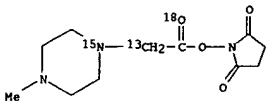
RN 856188-16-4 HCAPLUS
CN 2,5-Pyrrolidinedione, 1-[[(4-methyl-1-piperazinyl)acetyl-13C2-18O]oxy]-, dihydrochloride (9CI) (CA INDEX NAME)



●2 HCl

RN 856188-20-0 HCAPLUS
CN 2,5-Pyrrolidinedione, 1-[[(4-methyl-1-piperazinyl-1-15N)acetyl-2-13C-18O]oxy]-, dihydrochloride (9CI) (CA INDEX NAME)

L18 ANSWER 2 OF 15 HCAPLUS COPYRIGHT 2006 ACS on STN (Continued)



●2 HCl

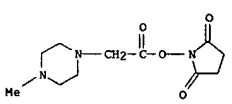
L18 ANSWER 3 OF 15 HCAPLUS COPYRIGHT 2006 ACS on STN
ED Entered STN: 08 Jul 2005
AB This invention pertains to mixts. of isobarically labeled analytes and fragment ions thereof.
ACCESSION NUMBER: 2005:592027 HCAPLUS
DOCUMENT NUMBER: 143:93642
TITLE: Mixtures of isobarically labeled analytes and fragments ions derived therefrom
INVENTOR(S): Pappin, Darryl J. C.; Purkayastha, Subhasish; Coull, James M.
PATENT ASSIGNEE(S): Applera Corp., USA
SOURCE: U.S. Pat. Appl. Publ., 36 pp., Cont.-in-part of U.S. Ser. No. 751,353.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 6
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2005147985	A1	20050707	US 2004-822639	20040412
US 2005147982	A1	20050707	US 2004-751353	20040105
US 2005148087	A1	20050707	US 2004-852730	20040524
WO 2005068446	A1	20050728	WO 2005-US223	20050105

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

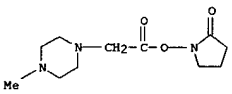
PRIORITY APPLN. INFO.:	US 2004-751353	A2 20040105
	US 2004-751354	A 20040105
	US 2004-751387	A 20040105
	US 2004-751388	A 20040105
	US 2004-822639	A2 20040412
	US 2004-852730	A 20040524

OTHER SOURCE(S): MARPAT 143:93642
IT **856188-06-2P 857027-09-9P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(mixts. of isobarically labeled analytes and fragments ions derived therefrom)
RN 856188-06-2 HCAPLUS
CN 2,5-Pyrrolidinedione, 1-[[(4-methyl-1-piperazinyl)acetyl]oxy]- (9CI) (CA INDEX NAME)

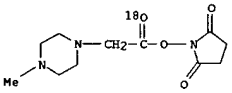


RN 857027-09-9 HCAPLUS

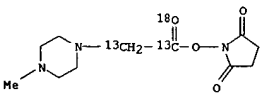
L18 ANSWER 3 OF 15 HCAPLUS COPYRIGHT 2006 ACS on STN (Continued)
CN 2-Pyrrolidinone, 1-[[(4-methyl-1-piperazinyl)acetyl]oxy]- (9CI) (CA INDEX NAME)



IT **856187-87-6P 856188-16-4P 856188-20-0P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(mixts. of isobarically labeled analytes and fragments ions derived therefrom)
RN 856187-87-6 HCAPLUS
CN 2,5-Pyrrolidinedione, 1-[[(4-methyl-1-piperazinyl)acetyl-18O]oxy]- (9CI) (CA INDEX NAME)



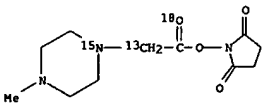
RN 856188-16-4 HCAPLUS
CN 2,5-Pyrrolidinedione, 1-[[(4-methyl-1-piperazinyl)acetyl-13C2-18O]oxy]-, dihydrochloride (9CI) (CA INDEX NAME)



●2 HCl

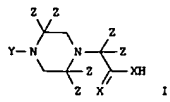
RN 856188-20-0 HCAPLUS
CN 2,5-Pyrrolidinedione, 1-[[(4-methyl-1-piperazinyl-1-15N)acetyl-2-13C-18O]oxy]-, dihydrochloride (9CI) (CA INDEX NAME)

L18 ANSWER 3 OF 15 HCAPLUS COPYRIGHT 2006 ACS on STN (Continued)



●2 HCl

L18 ANSWER 4 OF 15 HCAPLUS COPYRIGHT 2006 ACS on STN
ED Entered STN: 08 Jul 2005
GI



AB Isotopically enriched N-substituted piperazine-1-acetic acids (I) or salts thereof, comprising one or more heavy atom isotopes [X = O, S; Y = straight chain or branched C1-6 alkyl or C1-6 alkyl ether group wherein the carbon atoms of the alkyl group or alkyl ether group each independently comprise linked hydrogen, deuterium or F atoms; Z = independently H, deuterium, F, Cl, Br, iodine, an amino acid side chain, a straight chain or branched C1-6 alkyl group that may optionally contain a substituted or unsubstituted aryl group (wherein the carbon atoms of the alkyl and aryl groups each independently comprise linked H, deuterium or F atoms), a straight chain or branched C1-6 alkyl ether group that may optionally contain a substituted or unsubstituted aryl group wherein the carbon atoms of the alkyl and aryl groups each independently comprise linked H, deuterium or F atoms, or a straight chain or branched C1-6 alkoxy group that may optionally contain a substituted or unsubstituted aryl group (wherein the carbon atoms of the alkyl and aryl groups each independently comprise linked H, deuterium or F atoms)] are prepared N-substituted piperazines can be used as intermediates in the synthesis of N-substituted piperazine acetic acids which in turn can be used as intermediates in the synthesis of active esters of N-substituted piperazine acetic acid. The active esters of N-substituted piperazine acetic acid can be used as labeling reagents to prepare a set of isobaric labeling reagents. The set of isobaric labeling reagents can be used to label analytes such as peptides, proteins, amino acids, oligonucleotides, DNA, RNA, lipids, carbohydrates, steroids, small mols. and the like. Thus, to a stirring solution of 1.18 g (11.83 mmol) N-methylpiperazine in 15 mL toluene at room temperature was added 1 g (5.91 mmol) of Et bromoacetate-1,2-13C dropwise, over a period of 15 min. The reaction mixture was then heated in an oil bath at 90° for 4 h, cooled to room temperature, filtered to remove the off-white solid to give, after workup on the combined filtrate and washings, 1.10 g (quant.) of 4-methylpiperazine-1-acetic acid Et ester-1,2-13C (II) as an off-white oil. II (1.1 g) was refluxed in water for 24 h to give 780 mg 4-methylpiperazine-1-acetic acid-1,2-13C.

ACCESSION NUMBER: 2005:588426 HCAPLUS
DOCUMENT NUMBER: 143:115568
TITLE: Preparation of isotopically enriched N-substituted piperazine-1-acetic acids
INVENTOR(S): Dey, Subhakar; Pappin, Darryl J. C.; Purkayastha, Subhasish; Pillai, Sasi; Coull, James M.
PATENT ASSIGNEE(S): Applera Corp., USA
SOURCE: U.S. Pat. Appl. Publ., 29 pp.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English

L18 ANSWER 4 OF 15 HCAPLUS COPYRIGHT 2006 ACS on STN (Continued)
FAMILY ACC. NUM. COUNT: 6
PATENT INFORMATION:

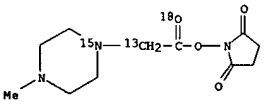
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2005148774	A1	20050707	US 2004-751387	20040105
WO 2005068446	A1	20050728	WO 2005-US223	20050105

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

PRIORITY APPLN. INFO.:	US 2004-751353	A	20040105
	US 2004-751354	A	20040105
	US 2004-751387	A	20040105
	US 2004-751388	A	20040105
	US 2004-822639	A	20040412
	US 2004-852730	A	20040524

OTHER SOURCE(S): MARPAT 143:115568

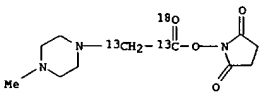
IT **856188-20-0P**
RL: ARG (Analytical reagent use); SPN (Synthetic preparation); ANST (Analytical study); PREP (Preparation); USES (Uses)
(preparation of isotopically enriched N-substituted piperazine-1-acetic acids as isobaric labeling reagents)
RN 856188-20-0 HCAPLUS
CN 2,5-Pyrrolidinedione, 1-[[(4-methyl-1-piperazinyl-1-15N)acetyl-2-13C-18O]oxy]-, dihydrochloride (9CI) (CA INDEX NAME)



●2 HCl

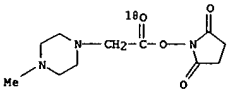
IT **856188-16-4P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of isotopically enriched N-substituted piperazine-1-acetic acids as isobaric labeling reagents)
RN 856188-16-4 HCAPLUS
CN 2,5-Pyrrolidinedione, 1-[[(4-methyl-1-piperazinyl)acetyl-13C2-18O]oxy]-, dihydrochloride (9CI) (CA INDEX NAME)

L18 ANSWER 4 OF 15 HCAPLUS COPYRIGHT 2006 ACS on STN (Continued)

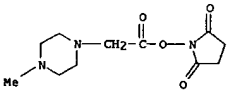


●2 HCl

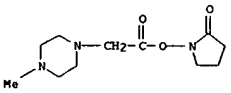
IT **856187-87-6P 856188-06-2P 857027-09-9P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of isotopically enriched N-substituted piperazine-1-acetic acids as isobaric labeling reagents)
RN 856187-87-6 HCAPLUS
CN 2,5-Pyrrolidinedione, 1-[[(4-methyl-1-piperazinyl)acetyl-18O]oxy]- (9CI) (CA INDEX NAME)



RN 856188-06-2 HCAPLUS
CN 2,5-Pyrrolidinedione, 1-[[(4-methyl-1-piperazinyl)acetyl]oxy]- (9CI) (CA INDEX NAME)



RN 857027-09-9 HCAPLUS
CN 2-Pyrrolidinone, 1-[[(4-methyl-1-piperazinyl)acetyl]oxy]- (9CI) (CA INDEX NAME)



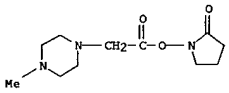
L18 ANSWER 5 OF 15 HCAPLUS COPYRIGHT 2006 ACS on STN
ED Entered STN: 08 Jul 2005
AB This invention pertains to isobarically labeled analytes and fragment ions thereof.
ACCESSION NUMBER: 2005:588349 HCAPLUS
DOCUMENT NUMBER: 143:112150
TITLE: Isobarically labeled analytes and fragment ions derived therefrom
INVENTOR(S): Pappin, Darryl J. C.; Purkayastha, Subhasish; Coull, James M.
PATENT ASSIGNEE(S): Applera Corporation, USA
SOURCE: U.S. Pat. Appl. Publ., 88 pp., Cont.-in-part of U.S. Ser. No. 822,639.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 6
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2005148087	A1	20050707	US 2004-852730	20040524
US 2005147982	A1	20050707	US 2004-751353	20040105
US 2005147985	A1	20050707	US 2004-822639	20040412
WO 2005068446	A1	20050728	WO 2005-US223	20050105

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

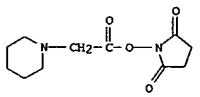
PRIORITY APPLN. INFO.:
US 2004-751353 A2 20040105
US 2004-822639 A2 20040412
US 2004-751354 A 20040105
US 2004-751387 A 20040105
US 2004-751388 A 20040105
US 2004-852730 A 20040524

OTHER SOURCE(S): MARPAT 143:112150
IT **857027-09-9P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(isobarically labeled analytes and fragment ions derived therefrom)
RN 857027-09-9 HCAPLUS
CN 2-Pyrrolidinone, 1-[[(4-methyl-1-piperazinyl)acetyl]oxy]- (9CI) (CA INDEX NAME)

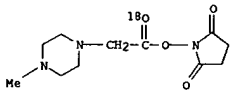


L18 ANSWER 5 OF 15 HCAPLUS COPYRIGHT 2006 ACS on STN (Continued)

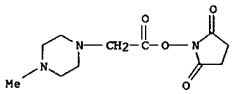
IT **741683-79-4P 856187-87-6P 856188-06-2P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(isobarically labeled analytes and fragment ions derived therefrom)
RN 741683-79-4 HCAPLUS
CN 2,5-Pyrrolidinedione, 1-[(1-piperidinylacetyl)oxy]- (9CI) (CA INDEX NAME)



RN 856187-87-6 HCAPLUS
CN 2,5-Pyrrolidinedione, 1-[[(4-methyl-1-piperazinyl)acetyl-18O]oxy]- (9CI) (CA INDEX NAME)



RN 856188-06-2 HCAPLUS
CN 2,5-Pyrrolidinedione, 1-[[(4-methyl-1-piperazinyl)acetyl]oxy]- (9CI) (CA INDEX NAME)



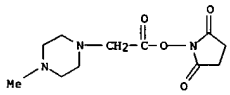
L18 ANSWER 6 OF 15 HCAPLUS COPYRIGHT 2006 ACS on STN
ED Entered STN: 08 Jul 2005
AB This invention pertains to mixts. of isobarically labeled analytes and fragment ions thereof.
ACCESSION NUMBER: 2005:588336 HCAPLUS
DOCUMENT NUMBER: 143:93635
TITLE: Mixtures of isobarically labeled analytes and fragments ions derived therefrom
INVENTOR(S): Pappin, Darryl J. C.; Purkayastha, Subhasish; Coull, James M.
PATENT ASSIGNEE(S): Applera Corporation, USA
SOURCE: U.S. Pat. Appl. Publ., 29 pp.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 6
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2005147982	A1	20050707	US 2004-751353	20040105
US 2005147985	A1	20050707	US 2004-822639	20040412
US 2005148087	A1	20050707	US 2004-852730	20040524
WO 2005068446	A1	20050728	WO 2005-US223	20050105

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

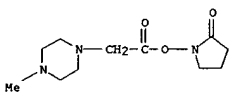
PRIORITY APPLN. INFO.:
US 2004-751353 A2 20040105
US 2004-751354 A 20040105
US 2004-751387 A 20040105
US 2004-751388 A 20040105
US 2004-822639 A2 20040412
US 2004-852730 A 20040524

IT **856188-06-2P 857027-09-9P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(mixts. of isobarically labeled analytes and fragments ions derived therefrom)
RN 856188-06-2 HCAPLUS
CN 2,5-Pyrrolidinedione, 1-[[(4-methyl-1-piperazinyl)acetyl]oxy]- (9CI) (CA INDEX NAME)

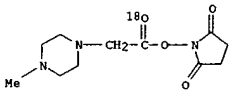


RN 857027-09-9 HCAPLUS
CN 2-Pyrrolidinone, 1-[[(4-methyl-1-piperazinyl)acetyl]oxy]- (9CI) (CA INDEX NAME)

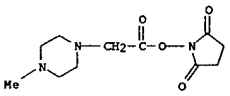
L18 ANSWER 6 OF 15 HCAPLUS COPYRIGHT 2006 ACS on STN (Continued)



IT **856187-87-6P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(mixts. of isobarically labeled analytes and fragments ions derived therefrom)
RN 856187-87-6 HCAPLUS
CN 2,5-Pyrrolidinedione, 1-[[(4-methyl-1-piperazinyl)acetyl-18O]oxy]- (9CI) (CA INDEX NAME)



L18 ANSWER 7 OF 15 HCAPLUS COPYRIGHT 2006 ACS on STN
ED Entered STN: 16 May 2005
AB Glycerophosphoethanolamine (GPEtn) and glycerophosphoserine (GPSer) lipids were reacted with a multiplexed set of differentially isotopically enriched N-methylpiperazine acetic acid N-hydroxysuccinimide ester reagents, which place isobaric mass labels at a primary amino group. The resulting derivitized aminophospholipids were isobaric and chromatog. indistinguishable but yielded pos. reporter ions (m/z 114 or 117) after collisional activation that could be used to identify and quantify individual members of the multiplex set. The chromatog. and mass spectrometric response of N-methylpiperazine amide-tagged aminophospholipids was probed using glycerophosphoethanolamine and glycerophosphoserine lipid stds. The (M+H)+ of each tagged aminophospholipid shifted 144 Da, and during collision-induced dissociation the major fragmentation ion was either m/z 114 or 117. This mode of detecting aminophospholipids was useful for an unbiased anal. of plasmalogen GPEtn lipids. Mol. species information on the esterified fatty acyl substituents was obtained by collisional activation of the [M-H]- ions. The isotope-tagged reagents were used to assess changes in the distribution of GPEtn lipids after exposure of liposomes made from phospholipids extracted from RAW 264.7 cells to Cu2+/H2O2 to illustrate the ability of these reagents to aid in the mass spectrometric identification of aminophospholipid changes that occur during biol. stimuli.
ACCESSION NUMBER: 2005:412987 HCAPLUS
DOCUMENT NUMBER: 144:186804
TITLE: Analysis of cell membrane aminophospholipids as isotope-tagged derivatives
AUTHOR(S): Zemski Berry, Karin A.; Murphy, Robert C.
CORPORATE SOURCE: Department of Pharmacology, University of Colorado Health Sciences Center, Aurora, CO, 80045, USA
SOURCE: Journal of Lipid Research (2005), 46(5), 1038-1046
CODEN: JLPRAW; ISSN: 0022-2275
PUBLISHER: American Society for Biochemistry and Molecular Biology, Inc.
DOCUMENT TYPE: Journal
LANGUAGE: English
IT **856188-06-2**
RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation and mass spectrometric anal. of cell membrane aminophospholipids as isotope-tagged derivs.)
RN 856188-06-2 HCAPLUS
CN 2,5-Pyrrolidinedione, 1-[[(4-methyl-1-piperazinyl)acetyl]oxy]- (9CI) (CA INDEX NAME)



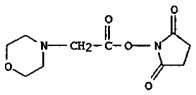
REFERENCE COUNT: 17 THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L18 ANSWER 8 OF 15 HCAPLUS COPYRIGHT 2006 ACS on STN
ED Entered STN: 08 Oct 2004
AB Provided is a method for characterizing a mol. by mass spectrometry, which mol. comprises one or more free amino groups, which method comprises: (a) reacting one or more free amino groups in the mol. with a mass tag reagent comprising a reactive functionality capable of reacting with an amino group, and a tertiary amino group linked to the reactive functionality; and (b) characterizing the mol. by mass spectrometry.
ACCESSION NUMBER: 2004:824132 HCAPLUS
DOCUMENT NUMBER: 141:310231
TITLE: Mass labels
INVENTOR(S): Hamon, Christian; Kuhn, Karsten; Thompson, Andrew; Reuschling, Dieter; Schaefer, Juergen
PATENT ASSIGNEE(S): Xzillion G.m.b.H. & Co. K.-G., Germany; Proteome Sciences PLC
SOURCE: PCT Int. Appl., 63 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

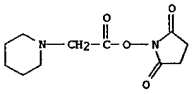
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004086050	A2	20041007	WO 2004-GB1167	20040318
WO 2004086050	A3	20041229		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
CA 2520297	AA	20041007	CA 2004-2520297	20040318
EP 1606623	A2	20051221	EP 2004-721565	20040318
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK				
NO 2005004684	A	20051012	NO 2005-4684	20051012
PRIORITY APPLN. INFO.:			GB 2003-6756 A	20030324
			WO 2004-GB1167 W	20040318

IT **741683-76-1P 741683-79-4P 768385-34-8P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(mass labels)
RN 741683-76-1 HCAPLUS
CN 2,5-Pyrrolidinedione, 1-[(4-morpholinylacetyl)oxy]- (9CI) (CA INDEX NAME)

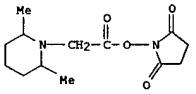
L18 ANSWER 8 OF 15 HCAPLUS COPYRIGHT 2006 ACS on STN (Continued)



RN 741683-79-4 HCAPLUS
CN 2,5-Pyrrolidinedione, 1-[(1-piperidinylacetyl)oxy]- (9CI) (CA INDEX NAME)



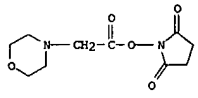
RN 768385-34-8 HCAPLUS
CN 2,5-Pyrrolidinedione, 1-[[(2,6-dimethyl-1-piperidinyl)acetyl]oxy]- (9CI) (CA INDEX NAME)



L18 ANSWER 9 OF 15 HCAPLUS COPYRIGHT 2006 ACS on STN
ED Entered STN: 20 Aug 2004
AB This invention pertains to methods, mixts., kits and/or compns. for the determination of analytes by mass anal. using unique labeling reagents or sets of unique labeling reagents. The labeling reagents can be isomeric or isobaric and can be used to produce mixts. suitable for multiplex anal. of the labeled analytes.
ACCESSION NUMBER: 2004:681717 HCAPLUS
DOCUMENT NUMBER: 141:202794
TITLE: Methods, mixtures, kits and compositions pertaining to analyte determination
INVENTOR(S): Pappin, Darryl J. C.; Bartlet-Jones, Michael
PATENT ASSIGNEE(S): Applera Corporation, USA
SOURCE: PCT Int. Appl., 105 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

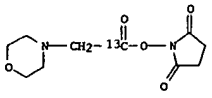
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004070352	A2	20040819	WO 2004-US2077	20040127
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI				
RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
CA 2488584	AA	20040819	CA 2004-2488584	20040127
US 2004219685	A1	20041104	US 2004-765264	20040127
US 2004220412	A1	20041104	US 2004-765267	20040127
US 2004219686	A1	20041104	US 2004-765458	20040127
EP 1588145	A2	20051026	EP 2004-705571	20040127
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
PRIORITY APPLN. INFO.:			US 2003-443612P P	20030130
			WO 2004-US2077 W	20040127

IT **741683-76-1P 741683-77-2P 741683-78-3P**
741683-79-4P 741683-80-7P 741683-86-3P
741683-93-2P
RL: SPN (Synthetic preparation); PREP (Preparation)
(methods, mixts., kits and compns. pertaining to analyte determination)
RN 741683-76-1 HCAPLUS
CN 2,5-Pyrrolidinedione, 1-[(4-morpholinylacetyl)oxy]- (9CI) (CA INDEX NAME)

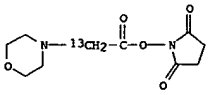


RN 741683-77-2 HCAPLUS
CN 2,5-Pyrrolidinedione, 1-[(4-morpholinylacetyl-1-13C)oxy]- (9CI) (CA INDEX NAME)

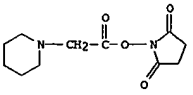
L18 ANSWER 9 OF 15 HCAPLUS COPYRIGHT 2006 ACS on STN (Continued)



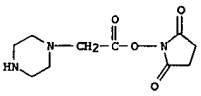
RN 741683-78-3 HCAPLUS
CN 2,5-Pyrrolidinedione, 1-[(4-morpholinylacetyl-2-13C)oxy]- (9CI) (CA INDEX NAME)



RN 741683-79-4 HCAPLUS
CN 2,5-Pyrrolidinedione, 1-[(1-piperidinylacetyl)oxy]- (9CI) (CA INDEX NAME)

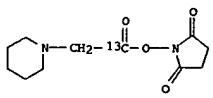


RN 741683-80-7 HCAPLUS
CN 2,5-Pyrrolidinedione, 1-[(1-piperazinylacetyl)oxy]- (9CI) (CA INDEX NAME)

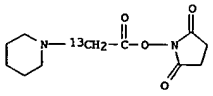


RN 741683-86-3 HCAPLUS
CN 2,5-Pyrrolidinedione, 1-[(1-piperidinylacetyl-1-13C)oxy]- (9CI) (CA INDEX NAME)

L18 ANSWER 9 OF 15 HCAPLUS COPYRIGHT 2006 ACS on STN (Continued)



RN 741683-93-2 HCAPLUS
CN 2,5-Pyrrolidinedione, 1-[(1-piperidinylacetyl-2-13C)oxy]- (9CI) (CA INDEX NAME)

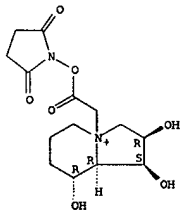


L18 ANSWER 10 OF 15 HCAPLUS COPYRIGHT 2006 ACS on STN
ED Entered STN: 17 May 2004
AB The process comprises N-alkylating swainsonine with bromoacetic acid N-succinimido ester in acetone under refluxing, coupling with bovine serum albumin in water at 0 °C, dialyzing, freeze drying, and emulsifying with Freund's adjuvant.
ACCESSION NUMBER: 2004:399339 HCAPLUS
DOCUMENT NUMBER: 141:254556
TITLE: Grassland's locoweed toxin vaccine
INVENTOR(S): Dong, Dewen; Cao, Guangrong; Zhao, Baoyu; Ge, Pengbin
PATENT ASSIGNEE(S): Danong Biotechnology Co., Ltd., Yangling, Peop. Rep. China
SOURCE: Faming Zhuanli Shenqing Gongkai Shuomingshu, 17 pp.
CODEN: CNXXEV
DOCUMENT TYPE: Patent
LANGUAGE: Chinese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
CN 1395967	A	20030212	CN 2002-114592	20020524
PRIORITY APPLN. INFO.:			CN 2002-114592	20020524

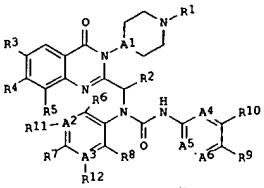
IT **754196-04-8P**
RL: PRP (Properties); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(vaccine for Grassland's locoweed toxin)
RN 754196-04-8 HCAPLUS
CN Indolizinium, 4-[2-[(2,5-dioxo-1-pyrrolidinyl)oxy]-2-oxoethyl]octahydro-1,2,8-trihydroxy-, bromide, (1S,2R,8R,8aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

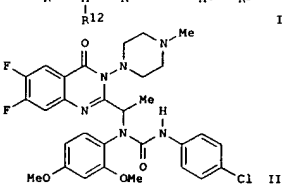


● Br^-

L18 ANSWER 11 OF 15 HCAPLUS COPYRIGHT 2006 ACS on STN
ED Entered STN: 28 Nov 2003
GI



I



II

AB This invention relates to compds. of formula I [A1-A6 = C, N; R1 = H, alkyl, cycloalkyl, CH2-cycloalkyl, etc.; R2 = alkyl; R3-R12 = H, alkyl, CF3, alkoxy, halo, OH, CN, etc.] that are efflux pump inhibitors and therefore are useful as potentiators of anti-fungal agents for the treatment of infections caused by fungi that employ an efflux pump resistance mechanism. Thus, II was prepared and showed a reduced MIC value against Candida albicans in the presence of fluconazole.
ACCESSION NUMBER: 2003:930975 HCAPLUS
DOCUMENT NUMBER: 139:395945
TITLE: Preparation of quinazolinylmethyl urea derivatives as fungal efflux pump inhibitors
INVENTOR(S): Watkins, Will J.; Lemoine, Remy; Cho, Aesop; Palme, Monica
PATENT ASSIGNEE(S): USA
SOURCE: U.S. Pat. Appl. Publ., 109 pp., Cont.-in-part of U.S. Ser. No. 906,864.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 3
PATENT INFORMATION:

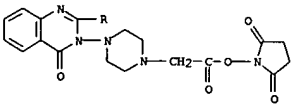
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2003220338	A1	20031127	US 2002-243074	20020912
US 6596723	B1	20030722	US 2001-906864	20010716
US 2003229097	A1	20031211	US 2002-334755	20021230
US 6689782	B2	20040210		
WO 2004024140	A1	20040325	WO 2003-US5184	20030221

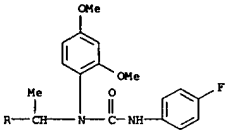
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,

L18 ANSWER 11 OF 15 HCAPLUS COPYRIGHT 2006 ACS on STN (Continued)
GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

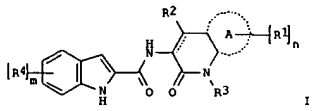
AU 2003215343	A1	20040430	AU 2003-215343	20030221
PRIORITY APPLN. INFO.:			US 2001-906864	A2 20010716
			US 2002-243074	A2 20020912
			US 2002-334755	A 20021230
			WO 2003-US5184	W 20030221

OTHER SOURCE(S): MARPAT 139:395945
IT **626245-59-8P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of quinazolinylmethyl urea derivs. as fungal efflux pump inhibitors)
RN 626245-59-8 HCAPLUS
CN Urea, N-(2,4-dimethoxyphenyl)-N-[1-[3-[4-[2-[(2,5-dioxo-1-pyrrolidinyl)oxy]-2-oxoethyl]-1-piperazinyl]-3,4-dihydro-4-oxo-2-quinazolinyl]ethyl]-N'-(4-fluorophenyl)- (9CI) (CA INDEX NAME)

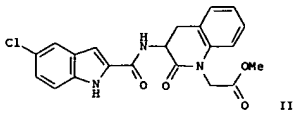




L18 ANSWER 12 OF 15 HCAPLUS COPYRIGHT 2006 ACS on STN
ED Entered STN: 14 Sep 2003
GI



I



II

AB The title compds. [I; A = phenylene or heteroarylene; m = 0-2; n = 0-2; R1 = halo, NO2, CN, OH, CO2H, etc.; R2 = H, OH, CO2H; R3 = H, OH, aryl, heterocyclyl, etc.; R4 = H, halo, NO2, CN, etc.] which possess glycogen phosphorylase inhibitory activity and accordingly have value in the treatment of disease states associated with increased glycogen phosphorylase activity such as diabetes type II, were prepared Thus, amidation of 5-chloro-1H-indole-2-carboxylic acid with Me 2-(3-amino-2-oxo-3,4-dihydroquinolin-1-(2H)-yl)acetate (preparation given) in the presence of HOBT, DCM and EDCI afforded 59% II. The compds. I showed IC50 values in the range 100μM to 1nM against against hrl glycogen phosphorylase a. Pharmaceutical composition comprising the compound I was claimed.

ACCESSION NUMBER:	2003:719471 HCAPLUS
DOCUMENT NUMBER:	139:261174
TITLE:	Preparation of N-heterocyclyl indole-2-carboxamides as glycogen phosphorylase inhibitors
INVENTOR(S):	Birch, Alan Martin; Morley, Andrew David
PATENT ASSIGNEE(S):	Astrazeneca AB, Swed.; Astrazeneca UK Limited
SOURCE:	PCT Int. Appl., 86 pp. CODEN: PIXXD2
DOCUMENT TYPE:	Patent
LANGUAGE:	English
FAMILY ACC. NUM. COUNT:	1
PATENT INFORMATION:	

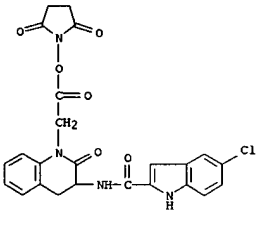
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003074513	A2	20030912	WO 2003-GB893	20030304
WO 2003074513	A3	20031231		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ,

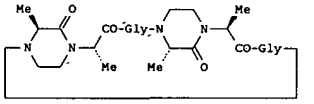
L18 ANSWER 12 OF 15 HCAPLUS COPYRIGHT 2006 ACS on STN (Continued)
UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

AU 2003216991	A1	20030916	AU 2003-216991	20030304
EP 1485371	A2	20041215	EP 2003-712313	20030304
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
US 2005131016	A1	20050616	US 2003-506748	20030304
JP 2005525364	T2	20050825	JP 2003-572981	20030304
PRIORITY APPLN. INFO.:			GB 2002-5162	A 20020306
			WO 2003-GB893	W 20030304

OTHER SOURCE(S): MARPAT 139:261174
IT **599193-13-2P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of N-heterocyclyl indole-2-carboxamides as glycogen phosphorylase inhibitors)
RN 599193-13-2 HCAPLUS
CN 1H-Indole-2-carboxamide, 5-chloro-N-[1-[2-[(2,5-dioxo-1-pyrrolidinyl)oxy]-2-oxoethyl]-1,2,3,4-tetrahydro-2-oxo-3-quinolinyl]- (9CI) (CA INDEX NAME)



L18 ANSWER 13 OF 15 HCAPLUS COPYRIGHT 2006 ACS on STN
ED Entered STN: 21 Mar 1995
GI



I

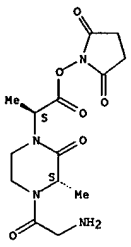
AB .The crystal structure of 18-membered cyclic pseudopeptide I, containing N,N'-ethylene-bridged-(S)-alanyl-(S)-alanine and glycine was determined by x-ray crystallog. Moreover, the structure of this pseudopeptide was examined by 1H NMR measurement in CD3CN, and by mol. mechanics calcns.

ACCESSION NUMBER:	1995:427460 HCAPLUS
DOCUMENT NUMBER:	123:83982
TITLE:	Structure of cyclic hexa-pseudopeptide constructed from N,N'-ethylene-bridged-(S)-alanyl-(S)-alanine and glycine
AUTHOR(S):	Kojima, Yoshitane; Yamashita, Tetsushi; Miyake, Hiroyuki
CORPORATE SOURCE:	Fac. Sci., Osaka City Univ., Osaka, 558, Japan
SOURCE:	Chemistry Letters (1995), (3), 201-2 CODEN: CMLTAG; ISSN: 0366-7022
PUBLISHER:	Nippon Kagakkai
DOCUMENT TYPE:	Journal
LANGUAGE:	English

IT **164857-03-8**
RL: RCT (Reactant); RACT (Reactant or reagent)
(structure of cyclic hexapseudopeptide constructed from ethylene-bridged alanylalanine and glycine)
RN 164857-03-8 HCAPLUS
CN Piperazinone, 4-(aminoacetyl)-1-[2-[(2,5-dioxo-1-pyrrolidinyl)oxy]-1-methyl-2-oxoethyl]-3-methyl-, monohydrochloride, [S-(R*,R*)]- (9CI) (CA INDEX NAME)

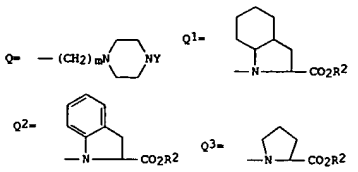
Absolute stereochemistry.

L18 ANSWER 13 OF 15 HCAPLUS COPYRIGHT 2006 ACS on STN (Continued)



● HCl

L18 ANSWER 14 OF 15 HCAPLUS COPYRIGHT 2006 ACS on STN
ED Entered STN: 06 Jan 1990
GI



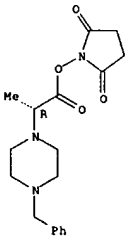
AB RR1CHCONHCH(CO2R2)(CH2)2COR3 [I; R = H, lower alkyl, PhCH2; R1 = (NH)m(CH2)nW, Q; R2 = H, lower alkyl; R3 = Q1, Q2, Q3, NR4CHR2CO2R2; W = H, CO2H, NH2, OH; Y = H, lower alkyl, Ph, PhCH2; R4 = C4-8 cycloalkyl, halo, alkoxy, (OH-substituted) Ph; m = 0, 1; n = 0-4] and their salts are prepared Refluxing 28 g 2-(S)-bromopropionic acid with 42 g PhCH2OH in PhMe gave 17.0 g benzyl 2-(S)-bromopropionate, 2.2 g of which was stirred with 1.6 g 1-benzylpiperazine in MeCN, then hydrolyzed with aqueous NaOH to give 1.0 g 2-(R)-(4-benzylpiperazinyl)propionic acid (II). Then, 24.5 g N-benzyloxycarbonyl-O1-ethyl-D-glutamic acid was stirred with 17.5 g Et (2S, 3aS, 7aS)-octahydro-1H-indole-2-carboxylate-HCl in CH2Cl2, then reduced, and then hydrolyzed with aqueous NaOH to give 15.01 g (2S, 3aS, 7aS)-1-(γ-D-glutamyl)octahydro-1H-indole-2-carboxylic acid (III). Then, 0.8 g II was treated with 0.4 g N-hydroxysuccinimide in CHCl3 to give 2-(R)-(4-benzylpiperazinyl)propionic acid N-hydroxysuccinimide ester, which was treated with 1.0 g III in THF to give 0.8 g (2S, 3aS, 7aS)-1-[N-2(R)-(4-benzylpiperazinyl)propionyl]-γ-D-glutamyl]octahydro-1H-indole-2-carboxylic acid, 0.4 g of which was refluxed with HCO2H in MeOH in the presence of Pd black for 4 h to give 0.2 g (2S, 3aS, 7aS)-1-[N-(2R)-piperazinylpropionyl)-γ-D-glutamyl]octahydro-1H-indole-2-carboxylic acid, which showed an IC50 of 2.1 × 10-7 M against angiotensin converting enzyme.

ACCESSION NUMBER: 1990:7937 HCAPLUS
DOCUMENT NUMBER: 112:7937
TITLE: Preparation and testing of tripeptide derivatives as cardiovascular agents
INVENTOR(S): Sawayama, Tadahiro; Nishimura, Kazuya; Deguchi, Takashi
PATENT ASSIGNEE(S): Dainippon Pharmaceutical Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 10 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

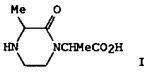
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 01125357	A2	19890517	JP 1987-281873	19871106
PRIORITY APPLN. INFO.:			JP 1987-281873	19871106

L18 ANSWER 14 OF 15 HCAPLUS COPYRIGHT 2006 ACS on STN (Continued)
OTHER SOURCE(S): MARPAT 112:7937
IT **124078-64-4P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and condensation of, with (glutamyl)indolecarboxylic acid)
RN 124078-64-4 HCAPLUS
CN 2,5-Pyrrolidinedione, 1-[1-oxo-2-[4-(phenylmethyl)-1-piperazinyl]propoxy]-, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L18 ANSWER 15 OF 15 HCAPLUS COPYRIGHT 2006 ACS on STN
ED Entered STN: 22 Jul 1988
GI



I

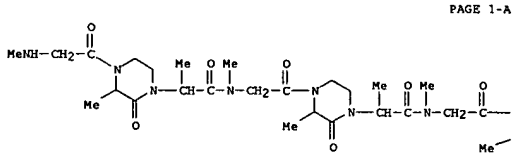
AB Synthetic routes to cyclic peptides cyclo(Sar-EAA)4 (EAA = residue of title acid I) and cyclo(Sar-Sar-Sar-EAA)2 are described. Interaction of these cyclic peptides with p-toluenesulfonic acid salt of sodium, benzylamine, and 4-phenylbutylamine were studied by 1H NMR.

ACCESSION NUMBER: 1988:423356 HCAPLUS
DOCUMENT NUMBER: 109:23356
TITLE: Interactions of organic substrates with 30- and 36-membered ring peptides containing (2S,3'S)-2-(2'-oxo-3'-methylpiperazin-1'-yl)propanoic acid and sarcosine
AUTHOR(S): Kojima, Yoshitane; Yamashita, Tetsushi; Shibata, Kozo; Ohsuka, Akio
CORPORATE SOURCE: Fac. Sci., Osaka City Univ., Osaka, 558, Japan
SOURCE: Polymer Journal (Tokyo, Japan) (1987), 19(10), 1221-3
CODEN: POLJB8; ISSN: 0032-3896
DOCUMENT TYPE: Journal
LANGUAGE: English
IT **114967-10-1P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and cyclization of)
RN 114967-10-1 HCAPLUS
CN 1-Piperazineacetamide, N-[2-[4-[2-[[2-[4-[2-[(2,5-dioxo-1-pyrrolidinyl)oxy]-1-methyl-2-oxoethyl]-2-methyl-3-oxo-1-piperazinyl]-2-oxoethyl]methylamino]-1-methyl-2-oxoethyl]-2-methyl-3-oxo-1-piperazinyl]-2-oxoethyl]-N,α,3-trimethyl-4-[[methyl[2-[3-methyl-4-[(methylamino)acetyl]-2-oxo-1-piperazinyl]-1-oxopropyl]amino]acetyl]-2-oxo-, [3S-[1[R*[R*[R*[R*(R*)]]]],3R*,4[R*(R*)]]]-, mono(trifluoroacetate) (9CI) (CA INDEX NAME)

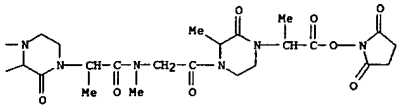
CM 1

CRN 114967-09-8
CMF C48 H73 N13 O15

PAGE 1-A



L18 ANSWER 15 OF 15 HCAPLUS COPYRIGHT 2006 ACS on STN (Continued)
PAGE 1-B



CM 2

CRN 76-05-1
CMF C2 H F3 O2

10765267Amend

=> s l13
L19 11 L13

=> d ed abs ibib hitstr 1-11

L19 ANSWER 1 OF 11 HCAPLUS COPYRIGHT 2006 ACS on STN

ED Entered STN: 08 Jul 2005

AB This invention pertains to isobarically labeled analytes and fragment ions thereof.

ACCESSION NUMBER: 2005:588349 HCAPLUS
DOCUMENT NUMBER: 143:112150
TITLE: Isobarically labeled analytes and fragment ions derived therefrom
INVENTOR(S): Pappin, Darryl J. C.; Purkayastha, Subhasish; Coull, James M.
PATENT ASSIGNEE(S): Applera Corporation, USA
SOURCE: U.S. Pat. Appl. Publ., 88 pp., Cont.-in-part of U.S. Ser. No. 822,639.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 6
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2005148087	A1	20050707	US 2004-852730	20040524
US 2005147982	A1	20050707	US 2004-751353	20040105
US 2005147985	A1	20050707	US 2004-822639	20040412
WO 2005068446	A1	20050728	WO 2005-US223	20050105

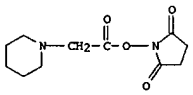
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

PRIORITY APPLN. INFO.:		
US 2004-751353	A2	20040105
US 2004-822639	A2	20040412
US 2004-751354	A	20040105
US 2004-751387	A	20040105
US 2004-751388	A	20040105
US 2004-852730	A	20040524

OTHER SOURCE(S): MARPAT 143:112150

IT **741683-79-4P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(isobarically labeled analytes and fragment ions derived therefrom)

RN 741683-79-4 HCAPLUS
CN 2,5-Pyrrolidinedione, 1-[(1-piperidinylacetyl)oxy]- (9CI) (CA INDEX NAME)



L19 ANSWER 2 OF 11 HCAPLUS COPYRIGHT 2006 ACS on STN

ED Entered STN: 08 Oct 2004

AB Provided is a method for characterizing a mol. by mass spectrometry, which mol. comprises one or more free amino groups, which method comprises: (a) reacting one or more free amino groups in the mol. with a mass tag reagent comprising a reactive functionality capable of reacting with an amino group, and a tertiary amino group linked to the reactive functionality; and (b) characterizing the mol. by mass spectrometry.

ACCESSION NUMBER: 2004:824132 HCAPLUS
DOCUMENT NUMBER: 141:310231
TITLE: Mass labels
INVENTOR(S): Hamon, Christian; Kuhn, Karsten; Thompson, Andrew; Reuschling, Dieter; Schaefer, Juergen
PATENT ASSIGNEE(S): Xzillion G.m.b.H. & Co. K.-G., Germany; Proteome Sciences PLC
SOURCE: PCT Int. Appl., 63 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004086050	A2	20041007	WO 2004-GB1167	20040318
WO 2004086050	A3	20041229		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

CA 2520297	AA	20041007	CA 2004-2520297	20040318
EP 1606623	A2	20051221	EP 2004-721565	20040318

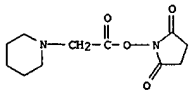
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK

NO 2005004684	A	20051012	NO 2005-4684	20051012

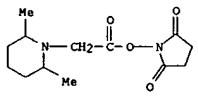
PRIORITY APPLN. INFO.:		
GB 2003-6756	A	20030324
WO 2004-GB1167	W	20040318

IT **741683-79-4P 768385-34-8P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(mass labels)

RN 741683-79-4 HCAPLUS
CN 2,5-Pyrrolidinedione, 1-[(1-piperidinylacetyl)oxy]- (9CI) (CA INDEX NAME)



RN 768385-34-8 HCAPLUS
CN 2,5-Pyrrolidinedione, 1-[[(2,6-dimethyl-1-piperidinyl)acetyl]oxy]- (9CI)
(CA INDEX NAME)

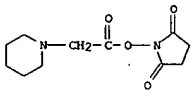


L19 ANSWER 3 OF 11 HCAPLUS COPYRIGHT 2006 ACS on STN
ED Entered STN: 20 Aug 2004
AB This invention pertains to methods, mixts., kits and/or compns. for the determination of analytes by mass anal. using unique labeling reagents or sets of unique labeling reagents. The labeling reagents can be isomeric or isobaric and can be used to produce mixts. suitable for multiplex anal. of the labeled analytes.
ACCESSION NUMBER: 2004:681717 HCAPLUS
DOCUMENT NUMBER: 141:202794
TITLE: Methods, mixtures, kits and compositions pertaining to analyte determination
INVENTOR(S): Pappin, Darryl J. C.; Bartlet-Jones, Michael
PATENT ASSIGNEE(S): Applera Corporation, USA
SOURCE: PCT Int. Appl., 105 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004070352	A2	20040819	WO 2004-US2077	20040127
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI				
RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
CA 2488584	AA	20040819	CA 2004-2488584	20040127
US 2004219685	A1	20041104	US 2004-765264	20040127
US 2004220412	A1	20041104	US 2004-765267	20040127
US 2004219686	A1	20041104	US 2004-765458	20040127
EP 1588145	A2	20051026	EP 2004-705571	20040127
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				

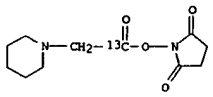
PRIORITY APPLN. INFO.: US 2003-443612P P 20030130
WO 2004-US2077 W 20040127

IT **741683-79-4P 741683-86-3P 741683-93-2P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(methods, mixts., kits and compns. pertaining to analyte determination)
RN 741683-79-4 HCAPLUS
CN 2,5-Pyrrolidinedione, 1-[(1-piperidinylacetyl)oxy]- (9CI) (CA INDEX NAME)

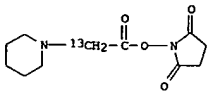


RN 741683-86-3 HCAPLUS
CN 2,5-Pyrrolidinedione, 1-[(1-piperidinylacetyl-1-13C)oxy]- (9CI) (CA INDEX NAME)

L19 ANSWER 3 OF 11 HCAPLUS COPYRIGHT 2006 ACS on STN (Continued)



RN 741683-93-2 HCAPLUS
CN 2,5-Pyrrolidinedione, 1-[(1-piperidinylacetyl-2-13C)oxy]- (9CI) (CA INDEX NAME)



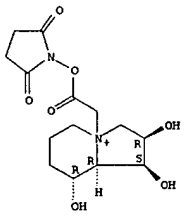
L19 ANSWER 4 OF 11 HCAPLUS COPYRIGHT 2006 ACS on STN
ED Entered STN: 17 May 2004
AB The process comprises N-alkylating swainsonine with bromoacetic acid N-succinimido ester in acetone under refluxing, coupling with bovine serum albumin in water at 0 °C, dialyzing, freeze drying, and emulsifying with Freund's adjuvant.
ACCESSION NUMBER: 2004:399339 HCAPLUS
DOCUMENT NUMBER: 141:254556
TITLE: Grassland's locoweed toxin vaccine
INVENTOR(S): Dong, Dewen; Cao, Guangrong; Zhao, Baoyu; Ge, Pengbin
PATENT ASSIGNEE(S): Danong Biotechnology Co., Ltd., Yangling, Peop. Rep. China
SOURCE: Faming Zhuanli Shenqing Gongkai Shuomingshu, 17 pp.
CODEN: CNXXEV
DOCUMENT TYPE: Patent
LANGUAGE: Chinese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
CN 1395967	A	20030212	CN 2002-114592	20020524

PRIORITY APPLN. INFO.: CN 2002-114592 20020524

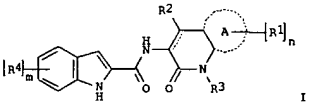
IT **754196-04-8P**
RL: PRP (Properties); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(vaccine for Grassland's locoweed toxin)
RN 754196-04-8 HCAPLUS
CN Indolizinium, 4-[2-[(2,5-dioxo-1-pyrrolidinyl)oxy]-2-oxoethyl]octahydro-1,2,8-trihydroxy-, bromide, (1S,2R,8R,8aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



● Br⁻

L19 ANSWER 5 OF 11 HCAPLUS COPYRIGHT 2006 ACS on STN
ED Entered STN: 14 Sep 2003
GI



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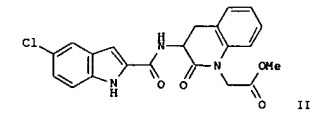


II

AB The title compds. [I; A = phenylene or heteroarylene; m = 0-2; n = 0-2; R1 = halo, NO2, CN, OH, CO2H, etc.; R2 = H, OH, CO2H; R3 = H, OH, aryl, heterocyclyl, etc.; R4 = H, halo, NO2, CN, etc.] which possess glycogen phosphorylase inhibitory activity and accordingly have value in the treatment of disease states associated with increased glycogen phosphorylase activity such as diabetes type II, were prepared Thus, amidation of 5-chloro-1H-indole-2-carboxylic acid with Me 2-(3-amino-2-oxo-3,4-dihydroquinolin-1-(2H)-yl)acetate (preparation given) in the presence of HOBT, DCM and EDCI afforded 59% II. The compds. I showed IC50 values in the range 100μM to 1nM against against hrl glycogen phosphorylase a. Pharmaceutical composition comprising the compound I was claimed.
ACCESSION NUMBER: 2003:719471 HCAPLUS
DOCUMENT NUMBER: 139:261174
TITLE: Preparation of N-heterocyclyl indole-2-carboxamides as glycogen phosphorylase inhibitors
INVENTOR(S): Birch, Alan Martin; Morley, Andrew David
PATENT ASSIGNEE(S): Astrazeneca AB, Swed.; Astrazeneca UK Limited
SOURCE: PCT Int. Appl., 86 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003074513	A2	20030912	WO 2003-GB893	20030304
WO 2003074513	A3	20031231		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR,				

L19 ANSWER 5 OF 11 HCAPLUS COPYRIGHT 2006 ACS on STN (Continued)

BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

AU 2003216991	A1	20030916	AU 2003-216991		20030304
EP 1485371	A2	20041215	EP 2003-712313		20030304
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK					
US 2005131016	A1	20050616	US 2003-506748		20030304
JP 2005525364	T2	20050825	JP 2003-572981		20030304
PRIORITY APPLN. INFO.:			GB 2002-5162	A	20020306
			WO 2003-GB893	W	20030304

OTHER SOURCE(S): MARPAT 139:261174

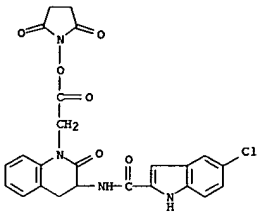
IT **599193-13-2P**

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of N-heterocyclyl indole-2-carboxamides as glycogen phosphorylase inhibitors)

RN 599193-13-2 HCAPLUS

CN 1H-Indole-2-carboxamide, 5-chloro-N-[1-[2-[(2,5-dioxo-1-pyrrolidinyl)oxy]-2-oxoethyl]-1,2,3,4-tetrahydro-2-oxo-3-quinolinyl]- (9CI) (CA INDEX NAME)



L19 ANSWER 6 OF 11 HCAPLUS COPYRIGHT 2006 ACS on STN

ED Entered STN: 01 Dec 1999

AB A simple and sensitive LC method that rapidly labels amino compds. including amino acids, using acridine-9-N-acetyl-N-hydroxysuccinimide (AAHS) which was synthesized by the reaction of acridine-9-N-acetic acid with benzenedisulfonyl-N-hydroxysuccinimide, was developed. A mixture of amines is treated with AAHS in the presence of triethylamine in non-aqueous acetonitrile or in 0.2 mol l-1 borate buffer at pH 8.0-9.0 in 40% volume/volume acetonitrile solution to give quant. yields of amides. The emission maximum for the derivatized amines is 435 nm (λex = 404 nm). The labeled derivs. are very stable; no significant decomposition is observed after heating in 50% acetonitrile at 40° for 24 h. Studies on the derivatization conditions indicate that amines or amino acids react very rapidly with AAHS under the proposed conditions. The method, in conjunction with a multi-step gradient, offers baseline resolution of common amine or amino acid derivs. on a reversed-phase C18 column. This method is more convenient and more efficient than previous methods which require prior conversion of carboxylic acids to acyl chlorides, which are unstable to moisture. The LC separation of amine or amino acid derivs. has good reproducibility. The established method is also suitable for the determination of other amine compds. in various biol. fluids.

ACCESSION NUMBER:	1999:759500 HCAPLUS
DOCUMENT NUMBER:	132:148595
TITLE:	Characterization and application of acridine-9-N-acetyl-N-hydroxysuccinimide as a pre-column derivatization agent for fluorimetric detection of amino acids in liquid chromatography
AUTHOR(S):	You, Jinmao; Lao, Wenjian; You, Jing; Wang, Guojun
CORPORATE SOURCE:	Lanzhou Inst. Chem. Phys., Chinese Academy of Sciences, Lanchou, 730000, Peop. Rep. China
SOURCE:	Analyst (Cambridge, United Kingdom) (1999), 124(12), 1755-1760 CODEN: ANALAO; ISSN: 0003-2654
PUBLISHER:	Royal Society of Chemistry
DOCUMENT TYPE:	Journal
LANGUAGE:	English

IT **150321-96-3P**

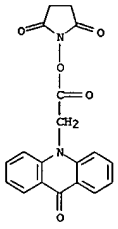
RL: ARG (Analytical reagent use); SPN (Synthetic preparation); ANST (Analytical study); PREP (Preparation); USES (Uses)

(characterization and application of acridine-9-N-acetyl-N-hydroxysuccinimide as a pre-column derivatization agent for fluorimetric detection of amino acids in liquid chromatog.)

RN 150321-96-3 HCAPLUS

CN 2,5-Pyrrolidinedione, 1-[[(9-oxo-10(9H)-acridinyl)acetyl]oxy]- (9CI) (CA INDEX NAME)

L19 ANSWER 6 OF 11 HCAPLUS COPYRIGHT 2006 ACS on STN (Continued)



REFERENCE COUNT: 22 THERE ARE 22 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L19 ANSWER 7 OF 11 HCAPLUS COPYRIGHT 2006 ACS on STN

ED Entered STN: 26 Mar 1996

AB The synthesis of 10,10'-substituted-9,9'-bisacridine mols. and their derivs. is disclosed. These mols. catalyze the production of light by chemiluminescence in the presence of a signal solution having at a pH from about 10.0 to about 14.0, at a concentration effective for producing a chemiluminescent signal, a chelating agent, a sulfoxide, a reducing sugar, and oxidant or combination of oxidants, an alc. and aqueous sodium tetraborate. These 10,10'-substituted-9,9'-biacridines are used alone or attached to haptens or macromols. and are utilized as labels in the preparation of chemiluminescent, homogeneous or heterogeneous assays. They are also used in conjunction with other chemiluminescent label mols. to produce multiple analyte chemiluminescent assays. An assay demonstrating the linearity of the signal with increasing dilns. of an anti-TSH-10,10'-para-toluo-9,9'-bisacridine conjugate is described.

ACCESSION NUMBER:	1996:171871 HCAPLUS
DOCUMENT NUMBER:	124:225820
TITLE:	Preparation of derivatized 10,10'-substituted-9,9'-bisacridine luminescent molecules and signal solutions
INVENTOR(S):	Katsilometes, George W.
PATENT ASSIGNEE(S):	USA
SOURCE:	PCT Int. Appl., 50 pp. CODEN: PIXXD2
DOCUMENT TYPE:	Patent
LANGUAGE:	English
FAMILY ACC. NUM. COUNT:	1
PATENT INFORMATION:	

PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
WO 9600392	A1	19960104	WO 1995-US7966		19950622
W: CN, JP, KR					
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE					
EP 766825	A1	19970409	EP 1995-924671		19950622
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE					
CN 1155931	A	19970730	CN 1995-194681		19950622
JP 10502346	T2	19980303	JP 1995-503340		19950622
US 5866335	A	19990202	US 1996-767288		19961216
HK 1001416	A1	20050826	HK 1998-100291		19980114
PRIORITY APPLN. INFO.:			US 1994-265481	A	19940624
			WO 1995-US7966	W	19950622

IT **174569-85-8**

RL: ARG (Analytical reagent use); ANST (Analytical study); USES (Uses)

(preparation of bisacridine luminescent derivs. and signal solns.)

RN 174569-85-8 HCAPLUS

CN 9,9'-Biacridinium, 10,10-bis[2-[(2,5-dioxo-1-pyrrolidinyl)oxy]-2-oxoethyl]-, dinitrate (9CI) (CA INDEX NAME)

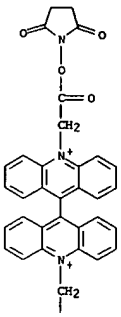
CM 1

CRN 174569-84-7

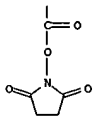
CMF C38 H28 N4 O8

L19 ANSWER 7 OF 11 HCAPLUS COPYRIGHT 2006 ACS on STN (Continued)

PAGE 1-A



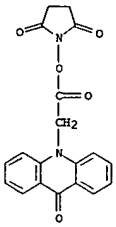
PAGE 2-A



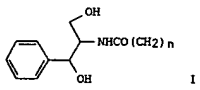
CM 2

CRN 14797-55-8
CMF N O3

L19 ANSWER 8 OF 11 HCAPLUS COPYRIGHT 2006 ACS on STN (Continued)
INDEX NAME)



L19 ANSWER 8 OF 11 HCAPLUS COPYRIGHT 2006 ACS on STN
ED Entered STN: 23 Jul 1994
GI



I

AB Fluorescent compds. useful in the determination of chloramphenicol acetyltransferase (CAT) enzyme activity are described. The compds. BASE-Ns-*X are fluorescent derivs. related in structure to chloramphenicol comprising a base (I), substituted at one to five aromatic ring positions by substituents, which may be the same or different, that are alkyl, hydroxy, alkoxy, aryl, halo, nitro, amino, alkylamido, or arylamido, and 0 < n < 6; and a fluorescent moiety *X (nonreduced tricyclic difluoroboradiazaindacene fluorophore) linked to the terminal CH2 of BASE through a linker Ns (e.g., NH*X, NHCOCH2*X). The substrate compds. are acylated in the presence of CAT to produce fluorescent mono- and diacylated products, which are then phys. separated from the reaction mixture and quantitated by means of their fluorescence and/or absorbance. Fluorescent mols. conjugated to chloramphenicol include derivs. of fluorescein, rhodamine, coumarin, dimethylaminonaphthalenesulfonic acid (dansyl), pyrene, anthracene, nitrobenzoxadiazole (NBD), acridine and dipyrromethemeneboron difluoride.

ACCESSION NUMBER: 1994:435864 HCAPLUS
DOCUMENT NUMBER: 121:35864
TITLE: Fluorescent chloramphenicol derivatives for determination of chloramphenicol acetyltransferase activity
INVENTOR(S): Haughland, Richard P.; Kang, Hee C.; Young, Steven L.; Melner, Michael H.
PATENT ASSIGNEE(S): Molecular Probes, Inc., USA
SOURCE: U.S., 13 pp. Cont. of U.S. Ser. No. 321,494, abandoned.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5262545	A	19931116	US 1991-722352	19910618
US 5364764	A	19941115	US 1992-994992	19921221
PRIORITY APPLN. INFO.:			US 1989-321494	B1 19890309
			US 1991-722352	A3 19910618

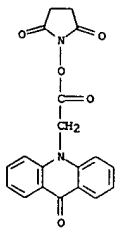
OTHER SOURCE(S): MARPAT 121:35864
IT **150321-96-3**
RL: RCT (Reactant); RACT (Reactant or reagent)
(fluorescent chloramphenicol derivs. for determination of chloramphenicol acetyltransferase activity)
RN 150321-96-3 HCAPLUS
CN 2,5-Pyrrolidinedione, 1-[[(9-oxo-10(9H)-acridinyl)acetyl]oxy]- (9CI) (CA

L19 ANSWER 9 OF 11 HCAPLUS COPYRIGHT 2006 ACS on STN
ED Entered STN: 05 Mar 1994
AB A photoluminometric immunoassay comprises reacting 2 immunoreactants, 1 labeled with a photoluminescent energy transfer donor capable of photoluminescence and the other labeled with a photoluminescent energy transfer acceptor complementary to the donor; exciting the sample with radiation; and calculating the apparent luminescence lifetime to determine the presence of a reaction product. Studies were done using goat anti-mouse IgG labeled with the donor dichlorotriazinylaminofluorescein and mouse IgG labeled with the acceptor tetramethylrhodamine isothiocyanate.

ACCESSION NUMBER: 1994:101282 HCAPLUS
DOCUMENT NUMBER: 120:101282
TITLE: Fluorescent energy transfer immunoassay
INVENTOR(S): Lakowicz, Joseph; Maliwal, Badri; Thompson, Richard; Ozinskas, Alvydas
PATENT ASSIGNEE(S): University of Maryland, USA
SOURCE: Eur. Pat. Appl., 26 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 552108	A2	19930721	EP 1993-400091	19930115
EP 552108	A3	19930922		
R: DE, FR, GB, IT				
CA 2087413	AA	19930718	CA 1993-2087413	19930115
JP 06066802	A2	19940311	JP 1993-6057	19930118
JP 3325939	B2	20020917		
US 5631169	A	19970520	US 1994-183238	19940119
PRIORITY APPLN. INFO.:			US 1992-822233	A 19920117

IT **150321-96-3D**, conjugates with immunoreactant
RL: ANST (Analytical study)
(in photoluminometric immunoassay)
RN 150321-96-3 HCAPLUS
CN 2,5-Pyrrolidinedione, 1-[[(9-oxo-10(9H)-acridinyl)acetyl]oxy]- (9CI) (CA INDEX NAME)

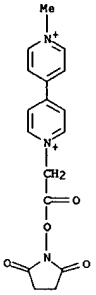


L19 ANSWER 10 OF 11 HCAPLUS COPYRIGHT 2006 ACS on STN
ED Entered STN: 01 Nov 1992
AB Metmyoglobin covalently linked with viologen was prepared and reduced by dithionite ions faster than the native metmyoglobin, suggesting that the reduction by dithionite of the attached viologen was followed by a rapid intramol. electron transfer from the viologen radical cation to the heme iron center.

ACCESSION NUMBER: 1992:566123 HCAPLUS
DOCUMENT NUMBER: 117:166123
TITLE: Effect of the chemical modification by viologen on the reduction of metmyoglobin
AUTHOR(S): Tsukahara, Keiichi; Todorobaru, Hiromi
CORPORATE SOURCE: Fac. Sci., Nara Women's Univ., Nara, 630, Japan
SOURCE: Chemistry Letters (1992), (7), 1181-4
CODEN: CMLTAG; ISSN: 0366-7022
DOCUMENT TYPE: Journal
LANGUAGE: English
IT **143674-76-4P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and coupling of, with metmyoglobin)
RN 143674-76-4 HCAPLUS
CN 4,4'-Bipyridinium, 1-[2-[(2,5-dioxo-1-pyrrolidinyl)oxy]-2-oxoethyl]-1'-methyl-, diperchlorate (9CI) (CA INDEX NAME)

CM 1

CRN 143674-75-3
CMF C17 H17 N3 O4

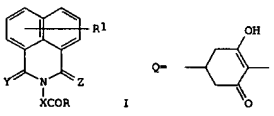


CM 2

CRN 14797-73-0
CMF Cl O4

L19 ANSWER 10 OF 11 HCAPLUS COPYRIGHT 2006 ACS on STN (Continued)

L19 ANSWER 11 OF 11 HCAPLUS COPYRIGHT 2006 ACS on STN
ED Entered STN: 05 Oct 1991
GI



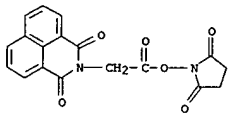
AB The title compds. [I; R = ON:CR5R6; R1 = 1-4 substituents which may be the same or different selected from H, halo, cyano, (halo)alkyl, etc.; R5 = H, cyano, alkyl, alkenyl, etc.; R6 = H, cyano, (halo)alkyl, alkoxy, etc.; X = (un)substituted alkylene; Y, Z = O, S] were prepared as safeners for 2-[(hetero)aryloxyphenoxy]acetate and -propionate or alkoximinomethylenecycylohexenone herbicides. Thus, I (R1 = H, X = CH2, Y = Z = O) (II); R = Cl) (preparation given) was condensed with Me2C:NOH to give II (R = ON:CMe2). II [R = ON:CR5R6; R5R6 = (CH2)3CH:C(OEt)] reduced damage to wheat of 0.03 kg/ha of the herbicide EtSCHMEH2Z1C(:NOEt)Pr (Z1 = hydroxycyclohexenonylene group Q) from 70 to 10% (with 95% control of annual ryegrass) at 0.125 kg/ha.

ACCESSION NUMBER: 1991:535937 HCAPLUS
DOCUMENT NUMBER: 115:135937
TITLE: Preparation of N-[[(alkylideneimino)oxycarbonyl]alkyl]-1,8-naphthalenedicarboximides and analogs as herbicide safeners
INVENTOR(S): Saupe, Thomas; Meyer, Norbert; Plath, Peter; Schirmer, Ulrich; Wuerzer, Bruno; Westphalen, Karl Otto; Patsch, Manfred; Pfister, Juergen
PATENT ASSIGNEE(S): BASF A.-G., Germany
SOURCE: Eur. Pat. Appl., 45 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 430004	A2	19910605	EP 1990-122030	19901117
EP 430004	A3	19911218		
R: AT, CH, DE, ES, FR, GB, IT, LI, NL, SE				
DE 3939379	A1	19910606	DE 1989-3939379	19891129
DE 4021654	A1	19920109	DE 1990-4021654	19900707
CA 2030129	AA	19910530	CA 1990-2030129	19901116
US 5076831	A	19911231	US 1990-615865	19901120
JP 03190861	A2	19910820	JP 1990-323392	19901128
PRIORITY APPLN. INFO.:			DE 1989-3939379 A	19891129
			DE 1990-4021654 A	19900707

OTHER SOURCE(S): MARPAT 115:135937
IT **135980-49-3P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of, as herbicide safener)
RN 135980-49-3 HCAPLUS
CN 1H-Benz[de]isoquinoline-1,3(2H)-dione, 2-[2-[(2,5-dioxo-1-pyrrolidinyl)oxy]-2-oxoethyl]- (9CI) (CA INDEX NAME)

L19 ANSWER 11 OF 11 HCAPLUS COPYRIGHT 2006 ACS on STN (Continued)



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321646 ISOTOP?
L21 0 L20 AND ISOTOP?

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FULL ESTIMATED COST	160.84	837.61

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